



PPAP

01.28.2019

PRODUCTION PART APPROVAL PROCESS

Vishay General Semiconductor

Strip Plating Conversion for Automotive Grade TRANSZORB® TVS and Zener Products in SMA, SMB and SMC Packages

This PPAP is sorted according PPAP (Fourth Edition) Contents

Supplier Address:
Vishay General Semiconductor
#88, 6th Avenue
TEDA, Tianjin, P.R.C.

Submitted by:
Frank Meng



List of Contents:

1. Design Records
2. Engineering Change Document
3. Customer Engineering Approval
4. Design FMEA
5. Process Flow Diagrams
6. Process FMEA
7. Control Plan
8. Measurement System Analysis Studies
9. Dimensional Results
10. Material, Performance Test Results
11. Initial Process Study
12. Qualified Laboratory Documentation
13. Appearance Approval Report
14. Sample Product
15. Master Sample
16. Checking Aids
17. Records of Compliance with Customer-Specific Requirements
18. Part Submission Warrant

1. Design Records of Saleable Product

Vishay General Semiconductor

Attn: PPAP Coordinator

Subject : PPAP of as attached list

To Whom It May Concern:

Vishay General Semiconductor is pleased to submit the enclosed Production Part Approval Procedure (PPAP) package for VGS PN : SMA, SMB, SMC

If you have any questions on this material, or if I can assist in any way, please feel free to telephone me at +86 25291088 ext 6900, or by e-mail Frank.meng@Vishay.com

Sincerely,

A handwritten signature in black ink that reads "Frank Meng". The signature is written in a cursive, flowing style.

Frank Meng
Sr. Quality Manager

CC: Vishay General Semiconductor Tianjin, P.R.China / Document Control



DIODES PPAP

PRODUCTION PART APPROVAL PROCESS

Data Sheet

<http://120.52.51.15/www.vishay.com/docs/88390/smaj50a.pdf>

<http://120.52.51.18/www.vishay.com/docs/88367/p4sma.pdf>

<http://120.52.51.19/www.vishay.com/docs/88875/sma5j5a.pdf>

<http://59.80.44.98/www.vishay.com/docs/88391/smaj530.pdf>

<http://120.52.51.14/www.vishay.com/docs/85782/sml4738.pdf>

<http://120.52.51.19/www.vishay.com/docs/88392/smbj.pdf>

<http://120.52.51.15/www.vishay.com/docs/88370/p6smb.pdf>

<http://120.52.51.16/www.vishay.com/docs/88385/sm6t.pdf>

<http://59.80.44.100/www.vishay.com/docs/88422/smb10j5.pdf>

<http://120.52.51.15/www.vishay.com/docs/88940/smbj3v3.pdf>

<http://120.52.51.19/www.vishay.com/docs/88402/smzj.pdf>

<http://59.80.44.98/www.vishay.com/docs/88394/smcj.pdf>

<http://120.52.51.17/www.vishay.com/docs/88303/15smc.pdf>

<http://59.80.44.100/www.vishay.com/docs/88380/sm15t.pdf>

2. Engineering Change Documents



DIODES PPAP

PRODUCTION PART APPROVAL PROCESS

5. Process Flow Diagrams

Changeover Key
 P=Product
 T=Tooling
 S=Software
 D=Dunnage
 L=Label

Inspection Key
 A=Automatic
 M=Manual
 V=Visual
 Q=Quality Audit

For Process: Folded SMA&SMB&SMC Process
For Sites: VGSC
Prepared By: Mike Liu

Doc. # FC-055F(T)
Rev. # 12
Rev. Date : 2019/1/24
Vishay GS Part # FSMX Process
Customer Part #

Symbol Instructions

Op-Seq	Fab/Assem	Move	Store/Get	Inspect	Rework	Scrap/Contain	Changeover	Operation Description	Special Char. Class	Significant Product Characteristics (Outputs)	Special Char. Class	Significant Process Characteristics (Inputs)
	◇	○	△	□	◇	●						
	◇							Lead Frame				
	◇							Solder Paste				
	◇							Pre-bumped Die(or None bumped dice)				
	◇							Flux				
OP-049	◇							Folding & Soldering				
OP-515	◇							Post Cleaning				
	◇							Molding compound				
OP-205/206	◇	○						Transfer molding				
OP-220	◇							Trimming				
OP-215	◇							Post molding curing				
OP-340	◇							Pure tin strip plating	DD	Plating solderability Plating thickness		
Subcon	◇				◇			Plating layer stripping				
OP-220	◇							Forming	DD	Forming demension		
OP-535 or Subcon (None-automotive)	◇							Test/Mark/Tape or Sub-con(Only for None automotive)	DD	Elec:IR/BVR/VF/TRR (FER)		
OP-550	◇			□				Final inspection				
GSC-4676	◇			□				Outgoing quality control (Elec.&Mech.)				
OP-600	◇							Packing				

Changeover Key
 P=Product
 T=Tooling
 S=Software
 D=Dunnage
 L=Label

Inspection Key
 A=Automatic
 M=Manual
 V=Visual
 Q=Quality Audit

For Process: MSMX Flow Chart
For Sites: VGSC
Prepared By: MIKE LIU

Doc. # FC-055F(T)
Rev. # 15
Rev. Date : 2017/12/13
Vishay GS Part # MSMX Process (J-band)
Customer Part #

Symbol Instructions

Op-Seq	Fab/Assem Move Store/Get Inspect Rework Scrap/ Contain	Changeover	Operation Description	Special Char. Class	Significant Product Characteristics (Outputs)	Special Char. Class	Significant Process Characteristics (Inputs)
	◇ ○ △ □ ● ●						
	◇		Lead Frame				
	◇		Solder Paste				
	◇		Pre-bumped Die				
	◇		Flux				
OP-045	◇		Soldering				
OP-515	◇		Post Cleaning				
	◇		Molding compound				
OP-205	◇ ○		Transfer molding				
OP-221	◇		TRIMMING				
OP-215	◇		POST MOLDING CURE				
	◇						
OP-340	◇		Pure tin strip plating	DD	Plating solderability Plating thickness		
OP-220	◇		Forming	DD	Forming demension		
OP-535	◇		TEST/MARK/TAPE	DD	Elec: IR/BVR/VF/VC (TVS) Mech: Tape/Label		
OP-550	◇		Final inspection	DD	Label/critical visual		
GSC-4676	◇		Outgoing quality control (Elec.&Mech.)				
OP-600	◇		Packing				

FOR CUSTOMER REQUEST ONLY

SOP-Q1-5004

Rej.



DIODES PPAP

PRODUCTION PART APPROVAL PROCESS

6. Process FMEA

Process: SMX
Product: Folded SMA&R&C

FMEA Number: FMEA-053-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
FMEA Rev.: 133
ECN #: 18-7590

Process Function (OJ / PI / OP #) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C l a s s	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e D e t e c t i o n	D e t e r m i n e d	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results											
												Actions	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n	R. P. N.							
049 FOLDED AUTO SOLDERING	INSUFFICIENT SOLDER	RELIABILITY	8		SOLDER PIN BEND	ADD PIN COVER TO PROTECT PIN DAMAGED WHEN PIN BOX LOADING & UNLOADING & TRANSFER	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. CHECK BEFORE SET UP: CHECK FIRST PIECE CHECK AND AFTER CLEANING D. 100% ELECTRICAL SORTING	4	64													
					VIBRATOR MALFUNCTION	START CHECK	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. CHECK VIBRATOR HAS WELL FUNCTION PER SHIFT D. 100% ELECTRICAL SORTING	4	64													
					SOLDER VOLUME SHORTAGE IN THE SOLDER PASTE TRAY	MACHINE AUTO ALARM EVERY 80PCS LEAD FRAME	3	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	96	ADD AOI SYSTEM TO AUTO CHECK SOLDER AREA	PE&EE 3 SETS HAVE BEEN FINISHED, OTHERS ARE EXCEPTED TO BE FINISHED BEFORE 2019 Q4											
					EXTRAL PARTILE/CONTAMINATION IN THE TRAY	MACHINE AUTO ALARM EVERY 80PCS LEAD FRAME	3	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	96	ADD AOI SYSTEM TO AUTO CHECK SOLDER AREA	PE&EE 3 SETS HAVE BEEN FINISHED, OTHERS ARE EXCEPTED TO BE FINISHED BEFORE 2019 Q4											
					THE LEAD FRAME SUPPORTING PLATE IN SOLDER STATION TILTED	PM CHECK	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64													
					EMERGENCY BUTTON WAS ABNORMAL PRESS DOWN CAUSE NO SOLDER	ADDED BUTTOM COVER TO AVOID ABNORMAL PUSH AS ERROR PROOFING ACTION	1	A.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	32													
	DIE CRACK SHORT			8		WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. CHICKLIST FOR PIN BOX ; B. SHIFT START UP CHECK SOLDER WEIGHT&PIN C.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME D.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING	4	64												
						SOLDER PIN BEND	ADD PIN COVER TO PROTECT PIN DAMAGED WHEN PIN BOX LOADING & UNLOADING & TRANSFER	2	A.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C.CHECK BEFORE SET UP: CHECK FIRST PIECE CHECK AND AFTER CLEANING D.100% ELECTRICAL SORTING	4	64												
						VIBRATOR MALFUNCTION	START CHECK	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. CHECK VIBRATOR HAS WELL FUNCTION PER SHIFT D. 100% ELECTRICAL SORTING	4	64												
						WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. CHICKLIST FOR PIN BOX ; B. SHIFT START UP CHECK SOLDER WEIGHT&PIN C.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME D.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING	4	64												
						INSUFFICIENT SOLDER PASTE VOLUME IN TRANSFER PATH	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. SOLDER WEIGH CHECK AT SHIFT START B. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. C. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64												
						TOO SMALL DIAMETER OF SOLDER TRANSFER PIN	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX C.INCREÁSE DIAMETER OF PIN D.FIX PIN BOX FOR EVERY CHIP SIZE	2	A. CHECK DIAMETER OF SOLDER PIN B. SHIFT START UP CHECK SOLDER WEIGHT&PIN C. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. D. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING	4	64												
EXCESS SOLDER	SHORT				WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. CHICKLIST FOR PIN BOX ; B. SHIFT START UP CHECK SOLDER WEIGHT&PIN C. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. D. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING	4	64													
					INSUFFICIENT PIN BOX CLEANING	A.FIRST PIECE CHECK	2	A. CHECKLIST FOR PIN BOX CLEAN	4	64													

Process: SMX
Product: Folded SMA&R&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:

Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
FMEA Rev.: 133
ECN #: 18-7590

Process Function (OJ / PI / OP #) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C l a s s	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	D e t e c t	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results							
												Actions	S	O	D	R. P. N.			
049 FOLDED AUTO SOLDERING	RELIABILITY FAILURE	DIE SHIFT/TILT	8		WRONG PIN BOX (WRONG DIA.)	B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. FIRST PIECE CHECK B. CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX C. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME D. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING	4	64									
						A.FIRST PIECE CHECK													
		H-HR/SHORT	8		INSUFFICIENT PIN BOX CLEANING	A.FIRST PIECE CHECK	2	A. CHECKLIST FOR PIN BOX CLEAN B. SHIFT START UP CHECK SOLDER WEIGHT&PIN C. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME D. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING	4	64									
						B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX													
		H-HR/SHORT	8		PIN HEAD DEFORMATION	A.FIRST PIECE CHECK	2	A. FIRST PIECE CHECK B. CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX C. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME D. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING	4	64									
						B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX													
	MISALIGNED SOLDER	8	H-HR/SHORT		SOLDER PIN BEND	ADD PIN COVER TO PROTECT PIN DAMAGED WHEN PIN BOX LOADING & UNLOADING &TRANSFER	2	A.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C.CHECK BEFORE SET UP; CHECK FIRST PIECE CHECK AND AFTER CLEANING D.100% ELECTRICAL SORTING	4	64									
						PIN BOX MISALIGNMENT													
	SHORT	8			SOLDER PIN BEND	ADD PIN COVER TO PROTECT PIN DAMAGED WHEN PIN BOX LOADING & UNLOADING &TRANSFER	2	A.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C.CHECK BEFORE SET UP; CHECK FIRST PIECE CHECK AND AFTER CLEANING D.100% ELECTRICAL SORTING	4	64									
						PIN BOX MISALIGNMENT													
	SOLDER SPLASH TO ADJACENT WORKING STATION(DIE LOADER)	SOLDER BRIDGE SHORT	8		HIGH SCRUBBER PRESSURE	INSTALL SCREEN TO PREVENT SOLDER SPLASH TO DIE LOADING STATION	1	A. ERROR PROOFED TO FIXED THE SCREEN, NO CHANCE FOR SOLDER SPLASH	1	8									
	DIE SHIFT OR ROTATE AND TOUCHES TO THE DOWN SET OF TOP FINGER	RELIABILITY FAILURE (FAIL IN THE FIELD) H-HR OR SHORT	8		WRONG PICK & PLACE POSITION OF DICE	SHIFT START ,MANUAL PICK&PLACE DICE ON DICE LOADER&CHANGE OR ADJUST LOADER CHECK AFTER & BEFORE SOLDERING. REDESIGN HOOK LEAD FRAME TO PREVENT DICE SHIFT TO TOUCH ADD LOCATION FRAME TO OPTIMIZE DICE POSITION AS ERROR PROOFING ACTION	2	A. DICE POSITION CHECK BEFORE SOLDERING AFTER PLACE DICE AT SHIFT START,MANUAL PICK&PLACE DICE ON DICE LOADER & CHANGE/ADJUST DICE LOADER B. DICE POSITION CHECK AFTER SOLDERING AT SHIFT START. & CHANGE/ADJUST DICE LOADER C. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64									
				BOTTOM SOLDER MISALIGNMENT	SHIFT START CHECK BEFORE SOLDERING ADD LOCATION FRAME TO OPTIMIZE SOLDER POSITION AS ERROR PROOFING ACTION CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. SOLDER POSITION CHECK BEFORE SOLDERING AT SHIFT START ; B. SOLDER POSITION CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX. C. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64										
				EXCESS SOLDER	A.FIRST PIECE CHECK B.SOLDER WEIGHT CHECK AT SHIFT START AND CHANGE PIN BOX.		A.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME B.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING												
				INSUFFICIENT SOLDER	A.FIRST PIECE CHECK B.SOLDER WEIGHT CHECK AT SHIFT START AND CHANGE PIN BOX.		A.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B.SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING												

Process: SMX
Product: Folded SMA&R&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:

Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
FMEA Rev.: 133
ECN #: 18-7590

Process Function (OJ / PL / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	C	I	A	S	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O	C	U	D	R	P.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results									
																		Current process Controls Detection	D	e	t	R.	Actions	S	O	D	R.
								TOP FLUX/SOLDER MISALIGNMENT	SHIFT START CHECK BEFORE SOLDERING ADD LOCATION FRAME TO OPTIMIZE FLUX POSITION AS ERROR PROOFING ACTION	A. FLUX/SOLDER POSITION CHECK BEFORE SOLDERING AT START & END SHIFT B. CLEAN HEATING BLOCK AT START SHIFT AND PERIODICAL C. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64															
								TOO MUCH FLUX RESIDUAL AT HEATING BLOCK	CLEAN HEATING BLOCK AT START SHIFT AND PERIODICAL	A. FLUX/SOLDER POSITION CHECK BEFORE SOLDERING AT START & END SHIFT B. CLEAN HEATING BLOCK AT START SHIFT AND PERIODICAL C. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64															
								SOLDER & FLUX PIN DAMAGED, WORN OUT AND WARPED	SHIFT START CHECK BEFORE SOLDERING	A. PIN BOX CHECK AT SHIFT START CHECK BEFORE SOLDERING B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
								FLUX PIN MOVE DICE WHEN INSTALL /UNSTALL PIN BOX	CHECK BEFORE INSTALL /UNSTALL PIN BOX, IF LEAD FRAME UNDER PIN BOX, MARK AND SCRAP	A. SCRAP MARKED LEAD FRAME B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
								SOLDERING WEIGHT WRONG PLACEMENT	REDISIGN THE WEIGHT LOCATION BLOCK STRUCTURE	1 ERROR PROOFING	1	8															
DIE TILT AND TOUCHES TO TOP FINGER	RELIABILITY FAILURE SHORT		8					TOP FINGER TILT UP	REDESIGN LEAD FRAME TOP DIMPLE SHAPE FROM BOWL TO FLAT TO PREVENT DICE TILT	A. SOLDERING HEIGHT MEASUREMENT B. LEAD FRAME INCOMING INSPECTION; C. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64															
								BOTTOM PAD TILT UP	REFLOW HEATING BLOCK RESET TO NOT TOUCH WITH BOTTOM PAD	A. SOLDERING HEIGHT MEASUREMENT B. LEAD FRAME INCOMING INSPECTION; C. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64															
								BOTTOM SOLDER MISALIGNMENT	SHIFT START CHECK BEFORE SOLDERING ADD LOCATION FRAME TO OPTIMIZE SOLDER POSITION AS ERROR PROOFING ACTION CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	A. SOLDER POSITION CHECK BEFORE SOLDERING AT START & END SHIFT ; B. SOLDER POSITION CHECK AFTER C. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64															
								TOP FLUX MISALIGNMENT	SHIFT START CHECK BEFORE SOLDERING ADD LOCATION FRAME TO OPTIMIZE FLUX POSITION AS ERROR PROOFING ACTION	A. FLUX POSITION CHECK BEFORE SOLDERING AT START & END SHIFT B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
								INITIAL DICE PLACE ON HOOK	CHECK DICE POSITION BEFORE SOLDERING WHEN SHIFT START AND CHANGE DICE LOADER ADD LOCATION FRAME TO OPTIMIZE DICE POSITION AS ERROR PROOFING ACTION	A. DICE POSITION CHECK BEFORE SOLDERING AT START & CHANGE DICE LOADER B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
DIE CHIPPING/DAMAGE/ CRACK	H-HR/SHORT		8					MANUALLY SUPPLEMENT DIE IF NOT LOAD INTO CAVITY	CHANGE THE TWEEZERMATERIAL TO PLASTIC, PREVENT TEZZER DAMAGE DICE EDGE OR CORNER	A. IQC SAMPLING CHECK SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
								LEAD FRAME PILE ON THE DESK DURING MACHINE MAINTANENCE	100% INSPECT THE LEAD FRAME ON THE DESK	A. 100% CHECK B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
								BIGGER THERMAL STRESS DUE TO LIMITATION OF REFLOW STRUCTURE.	A. SOLDERING TEMPERATURE MEASUREMENT AT SHIFT START. B. REFLOW PROFILE MEASURE PER TWO WEEKS.	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	96	IMPLEMENT INTEGRATED REFLOW STRUCTURE.	EE&PE6/30/2019													
CHIP MISSING	OPEN		8					CAVITY DAMAGED	FIRST PIECE CHECK	A. SAMPLING CHECK B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
								IMPROPER BUMP SHAPE	IQC SAMPLING CHECK+ 100% electrical testing	A. IQC SAMPLING CHECK B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64															
								ABNORMAL DICE PICK&PLACE FOR PRE-BUMP MISALIGNMENT ON BYG	IMPLEMENT NON PRE-BUMP PROCESS	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL TESTING	4	64															
								DICE LOADING QTY IS NOT ENOUGH	100% ELECTRICAL TESTING	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL TESTING	4	64															
SOLDER BALL/BRIDGE	RELIABILITY FAILURE							PIN BEND--FLUX /SOLDER PIN	ADD PIN COVER TO PROTECT PIN DAMAGED WHEN PIN BOX LOADING & UNLOADING &TRANSFER	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. CHECK BEFORE SET UP: CHECK FIRST PIECE CHECK AND AFTER CLEANING C. 100% ELECTRICAL SORTING	4	64															
SOLDER OVERHANG	HIGH IR / SHORT							INSUFFICIENT FLUX	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64															
								SOLDER PASTE GROOOVE AND SCRAPER MISALIGNMENT	FIRST PIECE CHECK AND PER 80PCS L/F CHECK SOLDER VOLUME BY VISUAL	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64															

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Process Function (OJ / PL / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	C	I	e	v	e	s	Potential Cause(s) / Mechanism(s) of Failure	Current process Controls Prevention	O	c	c	u	r	D	e	t	e	R.	P.	N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results															
																										Actions	Actions	S	O	D	R.										
			8							SHORTER SOAK TIME	A. SOLDERING TEMPERATURE MEASUREMENT AT SHIFT START. B. OPTIMIZE SOLDERING PROFILE. REFLOW PROFILE MEASURE PER TWO WEEKS. C. IMPLEMENT INTEGRATED REFLOW TO REDUCE FAILURE RATE.	2	A. SOLDERING TEMPERATURE MEASUREMENT AT SHIFT START. B. REFLOW PROFILE MEASURE PER TWO WEEKS. C. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64																										
										L/F OXIDATION AT REFLOW STATION	SCRAP L/F AT THE REFLOW STATION WHEN JAMMING WAS HAPPENED AT L/F UNLOADING STATION	2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64																										
										BIG FRICTIONAL WHEN L/F MOVING AT REFLOW STATION	CLEANING HEATING BLOCK AND WEIGHT EVERY TWO HOURS; POLISH HEATING BLOCK SURFACE EVERY ONE MONTH	2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64																										
										SPACE NARROW BETWEEN DICE EDGE AND HOOK	OPTIMIZE L/F TO ENLARGE THE SPACE AS ERROR PROOFING ACTION	1	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	32																										
										FLUX MISALIGNMENT DUE TO PIN BENT OR WORN OUT	A. FIRST PIECE CHECK. B. CHECK AFTER REPAIRED, CLEAN AND CHANGE PIN BOX C. CHANGE TO MAGNETIC P&P STRUCTURE FOR NOZZLE BOX, SOLDER PASTE AND FLUX TO ENSURE DICE SOLDER PASTE & FLUX'S POSITION	2	A. FRIST PIECE CHECK & CHECK LIST B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64																										
										NO FLUX DUE TO PIN BLOCK	A. FIRST PIECE CHECK. B. CHECK AFTER REPAIRED, CLEAN AND CHANGE PIN BOX C. 80 PCS L/F AUTO-PROMPT, OPERATOR CHECK FLUX PLATE & CHECK L/F ON TRACK. D. CHANGE TO CYLINDER FLUX PIN BOX TO REDUCE FAILURE RATE.	2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64																										
										ABNORMAL BUMP HIGH AND DICE TILT	1. DICE PREBUMP VOLUME CONTROL ENHANCEMENT; 2. RE-DESIGN LEAD FRAME ;	2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	48																										
										HIGHER SOLDERING TEMP	TEMPERATURE CONTROLLER CHART INSTALL THE ALARM SYSTEM	2	A. CHECKLIST FOR TEMPERATURE MEASUREMENT B. REFLOW PROFILE CHECK C. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	48																										
TOP FINGER TILT AFTER FOLDING AND REFLOW	DIE CRACK SHORT	8			LEAD FRAME TOP FINGER TILT	FIRST PIECE CHECK SOLDERING HEIGHT CHECK	2	A. SAMPLING CHECK B. SOLDERING HEIGHT INSPECTION C. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	64																															
BAD SURFACE CONDITION	FIRST PIECE CHECK REPLACE THE HEATING BLOCK #2				2	A. PM PROCEDURE OF HEATING BLOCK CHECK B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64																																	
WITHOUT WEIGHT BETWEEN RE-FLOW PHASE & COOLING PHASE	FIRST PIECE CHECK HAVE EXCHANGED THE WEIGHT OF REFLOW & COOLING PHASE				2	A. SAMPLING CHECK B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64																																	
TOP FINGER OVER FOLDING	RELIABILITY FAILURE H/R/SHORT	8			DICE TRAPPED ON THE BEARING	FIRST PIECE CHECK CLEANING THE FOLDING STATION BY EVERY 2 HOURS	2	A. SAMPLING CHECK B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64																															
COPPER FILAMENT	RELIABILITY FAILURE SHORT	8			COPPER FILAMENT DROP TO DICE OR SODLERING AREA.	A. CLEANING FOLDING STATION WHEN SHIFT START AND PER 2HOURS. ENSURE NO LEAD FRAME AT ORBIT BEFORE CLEANING. B. IMPLEMENT FOLDING PUNCH UPGRADE TO REDUCE COPPER FILAMENT FAILURE RATE. C. INSTALL A PROTECTED TRANSPARENT BOARD TO ISOLATE THE FLUX TRAY AREA AND THE FOLDING STATION	2	A. SAMPLING CHECK B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64																															
NONE WETTING	RELIABILITY FAILURE (YIELD LOSS) OPEN	8			MISS FOLDING LOCATION POSITION	FIXED FOLDING LOCATION PIN HOLDER BY HOLD RING AND GLUE	2	A. FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	64																															
FOLDING SPRING MALFUNCTION	PM CHECK FOLDING SPRING PER MONTH				2	A. FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. PM CHECK LIST C. 100% ELECTRICAL SORTING	4	64																																	
REFLOW TEMP. ABNORMAL	TEMPERATURE CONTROLLER INSTALL THE ALARM SYSTEM				2	A. FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. TEMP. ABNORMAL Auto alarm	2	32																																	
HEATING BLOCK MISALIGNMENT	IMPLEMENT INTEGRATED REFLOW				1	A. FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. PM CHECK LIST C. 100% ELECTRICAL SORTING	4	32																																	
WEIGHT MISSING AT REFLOW AND WEIGHT WORN OUT	CHECK BEFORE AND AFTER INSTALL THE WEIGHT				2	A. FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	64																																	
FLUX PIN BLOCK CAUSE NO FLUX	CYLINDER FOR PIN BOX TO AVOID PIN JAMMING, ERROR PROOFED TO AUTO ALARM IF JAMMING				1	A. FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	64																																	
FLUX VOLUME SHORTAGE IN THE FLUX TRAY	MACHINE AUTO ALARM EVERY 80PCS LEAD FRAME				2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64																																	
EXTRAL PARTILE/CONTAMINATION IN THE TRAY	MACHINE AUTO ALARM EVERY 80PCS LEAD FRAME				2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64																																	
FLUX PIN BENDED	A. ADD PIN COVER TO PROTECT PIN DAMAGED WHEN PIN BOX LOADING & UNLOADING & TRANSFER B. MACHINE AUTO ALARM EVERY 80PCS LEAD FRAME				2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64																																	
THE LEAD FRAME SUPPORTING PLATE IN FLUX STATION TILTED	PM CHECK				2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64																																	
EMERGENCY BUTTON WAS ABNORMAL PRESS DOWN CAUSE NO FLUX	ADDED BUTTOM COVER TO AVOID ABNORMAL PUSH AS ERROR PROOFING ACTION				1	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	32																																	

Process: SMX
Product: Folded SMA&R&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
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ECN #: 18-7590

Process Function (OJ / PI / OP #) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C l a s s	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	D e t e c t	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results											
												Actions	S e v e r i t y	C l a s s	O c c u r r e n c e	D e t e c t	R. P. N.						
SOLDER JOINT OPEN	RELIABILITY FAILURE (YIELD LOSS) OPEN		8		MISS FOLDING LOCATION POSITION	FIXED FOLDING LOCATION PIN HOLDER BY HOLD RING AND GLUE	2	A:FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	64													
					FOLDING SPRING MALFUNCTION	PM CHANGE FOLDING SPRING PER MONTH	2	A: FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. PM CHECK LIST C. 100% ELECTRICAL SORTING	4	64													
					REFLOW TEMP. ABNORMAL	TEMPERATURE CONTROLLER INSTALL THE ALARM SYSTEM	2	A: FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. TEMP. ABNORMAL Auto alarm	4	64													
					HEATING BLOCK MISALIGNMENT	PM CHECK HEATING BLOCK FLAT POSITION PER MONTH IMPLEMENT INTEGRATED REFLOW TO REDUCE FAILURE RATE.	2	A: FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. PM CHECK LIST C. 100% ELECTRICAL SORTING	4	64													
					WEIGHT MISSING AT REFLOW AND WEIGHT WORN OUT	CHECK BEFORE AND AFTER INSTALL THE WEIGHT	2	A:FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	64													
					SOLDER PIN IS NOT ON THE CENTER OF TROUGH	A. ADDED LOCATION MECHANISM (NON-BUMP PROCESS) B. FIRST PIECE CHECK	1	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. TMTT DVF 100% SORTING	4	32													
					SOLDER PIN DOES NOT RECH THE BOTTOM OF TROUGH	A. MACHINE PM B. SENSOR AUTO ALARM C. FIRST PIECE CHECK	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64													
					THE WEAR OF BLADE	MACHINE PM, SYSTEM LIFT TIME CONTROL	2	A. PM CHECK LIST. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	64													
					WRONG TRAY	MARK TRAY MODE	2	A. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING	4	64													
NECKING/PARTIAL WETTING	RELIABILITY FAILURE (YIELD LOSS)		4		FOLDING SPRING MALFUNCTION	PM CHANGE FOLDING SPRING PER MONTH	2	A: FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. PM CHECK LIST C. 100% ELECTRICAL SORTING	4	32													
					REFLOW TEMP. ABNORMAL	TEMPERATURE CONTROLLER INSTALL THE ALARM SYSTEM	2	A: FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. TEMP. ABNORMAL AUTO ALARM C. 100% ELECTRICAL SORTING	4	32													
					HEATING BLOCK MISALIGNMENT	PM CHECK HEATING BLOCK FLAT POSITION PER MONTH IMPLEMENT INTEGRATED REFLOW TO REDUCE FAILURE RATE.	2	A: FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	32													
					HEATING BLOCK CLEANING	CLEAN ONCE PER 2 HOURS	2	A: FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	32													
					FLUX PIN BLOCK	SOLDER PIN AUTO CLEANING BY MACHINE CHANGE TO CYLINDER FLUX PIN BOX TO REDUCE FAILURE RATE.	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	32													
					WEIGHT MISSING AT REFLOW AND WEIGHT WORN OUT	CHECK BEFORE AND AFTER INSTALL THE WEIGHT	3	A:FIRST PIECE CHECK & ROUTINE SAMPLE CHECK PER 20PCS SUB-ASSEMBLY PARTS B. 100% ELECTRICAL SORTING	4	48													
					INSUFFICIENT FLUX	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	32													
					SOLDER PIN IS NOT ON THE CENTER OF TROUGH	A. ADDED LOCATION MECHANISM (NON-BUMP PROCESS) B. FIRST PIECE CHECK	1	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. TMTT DVF 100% SORTING	4	16													
					SOLDER PIN DOES NOT RECH THE BOTTOM OF TROUGH	A. MACHINE PM B. SENSOR AUTO ALARM C. FIRST PIECE CHECK	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	32													
					THE WEAR OF BLADE	MACHINE PM	2	A. SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. B. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING	4	32													
BOTTOM SOLDER MISALIGNMENT	SHIFT START CHECK BEFORE SOLDERING ADD LOCATION FRAME TO OPTIMIZE SOLDER POSITION AS ERROR PROOFING ACTION CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	A. SOLDER POSITION CHECK BEFORE SOLDERING AT SHIFT START ; B. SOLDER POSITION CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX. C. SUB-ASSEMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME D. 100% ELECTRICAL SORTING	4	32																		

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
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Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
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ECN #: 18-7590

Process Function (OJ / Pl / OP #) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C l a s s	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	D e t e c t	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results					
												Actions	S e v e r i t y	O c c u r r e n c e	D e t e c t	R. P. N.	
049 FOLDED AUTO SOLDERING (FSMB & FSMC ONLY)	WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED.CLEAN AND CHANGE PIN BOX					2	4	32	A. CHICKLIST FOR PIN BOX ; B. SHIFT START UP CHECK SOLDER WEIGHT&PIN C.SOLDER VISUAL INSPECTION AT SHIFT START & PER 80PCS LEAD FRAME. D.SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME E. 100% ELECTRICAL SORTING							
																	WRONG TRAY
	DIE CRACK WHEN	YIELD LOSS	8		JAMMING	STOP WHEN JAMMING	3	2	48	3	SCRAP JAMMED PARTS						
	UNLOADING	SHORT															
	LEAD FRAME BENDING	YIELD LOSS	7		JAMMING	STOP WHEN JAMMING	4	2	56	4	SCRAP JAMMED PARTS						
	CHIP UPSIDE DOWN	YIELD LOSS	8		LOW BUMP HIGH	IQC CHEAK	2	4	64	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING							
		SHORT	8		CAVITY WORN OUT/DAMAGED	CAVITY CHECK	2	4	64	A. CHECKLIST FOR CAVITY B. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME C. 100% ELECTRICAL SORTING							
	DOUBLE DICE	HI-TRR IN THE FIELD	8		ABNORMAL DICE PICK&PLACE FOR PRE-BUMP MISALIGNMENT	SAMPLING CHECK	2	4	64	2	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING						
	WITHOUT SOLDER ON THE SMALL HOLE	MECHANICAL DEFECT;	7		PIN BOX DO NOT PLACE IN A PROPER POSITION	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED.CLEAN AND CHANGE PIN BOX	2	4	56	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING							
SOLDER OVER THE SMALL HOLE		MECHANICAL DEFECT	5	TOO BIG PIN DIAMETER	CHECK PIN DIAMETER AT SHIFT START, CHANGE PIN SIZE FROM 15MIL TO 10 MIL	2	4	40	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING								
										5		PIN BOX DOES NOT PLACE IN A PROPER POSITION	A.FIRST PIECE CHECK B.CHECK AFTER REPAIRED.CLEAN AND CHANGE PIN BOX	2	4	40	A. SUB-ASSMBLY DEVICES INSPECT PER 20 PCS LEAD FRAME B. 100% ELECTRICAL SORTING

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
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Process Function (OJ / PI / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C a u s e s	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results					
												Actions	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n	R. P. N.	
515 POST CLEANING	FLUX RESIDUAL ON THE DIE SURFACE	HIGH IR (RELIABILITY)	8		INSUFFICIENT CLEANING CHANGE NPB PER 4WEEKS 1ST PIECE CHECK AT SHFIT START, PER2HRS AND CHANGED SOLUTION ALL BI-DIRECTIONAL,ALL SKY AND FSMA PAR DEVICE CLEAN CYCLE TIME IS TWICE		2	START CHECK PER SHIFT SAMPLING CHECK	4	64							
205 TRADITIONAL MOLDING	INCOMPLETE FILL IPE	ENCAPSULATION FAILURE	5		RUNNER BLOCK AIR VENT BLOCK CLEANING IDM RESIDUE TOO LOW TRANSFER PRESSURE TOO SLOW TRANSFER SPEED TOO HIGH MOLD TEMPERATURE TOO LOW SPIRAL FLOW OF MOLDING COMPOUND TOO LOW GEL TIME OF MOLDING COMPOUND INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE IMPROPER MOLDING COMPOUND PREHEATING TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL START/END CHECK FOR INCOMPLETE FILL START/END CHECK FOR INCOMPLETE FILL CONTROLLER CONTROLLER CONTROLLER SPIRAL FLOW CHECK START/END CHECK FOR INCOMPLETE FILL FIRST PIECE CHECK; TRANSPORTATION CONTROL AND STORAGE CONTROL IN COLLING ROOM	2 2 2 2 2 2 2	MECH. INSP. CHECK MECH. INSP. CHECK MECH. INSP. CHECK MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT	4 4 4 4 4 4 4 4 4 4 4 4								
		HERMETIC PROBLEM	7		RUNNER BLOCK AIR VENT BLOCK TOO LOW TRANSFER PRESSURE TOO SLOW TRANSFER SPEED TOO HIGH MOLD TEMPERATURE TOO LOW SPIRAL FLOW OF MOLDING COMPOUND TOO LOW GEL TIME OF MOLDING COMPOUND INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE IMPROPER MOLDING COMPOUND PREHEATING TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL START/END CHECK FOR INCOMPLETE FILL CONTROLLER CONTROLLER CONTROLLER SPIRAL FLOW CHECK START/END CHECK FOR INCOMPLETE FILL FIRST PIECE CHECK; TRANSPORTATION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2 2 2 2 2	MECH. INSP. CHECK MECH. INSP. CHECK MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT	4 4 4 4 4								
205 TRADITIONAL MOLDING	PARTIAL BODY/ CHIP (NO I.P.E)	COSMETIC FAILURE	4		RUNNER BLOCK BY CLEANING AIR VENT BLOCK TOO LOW TRANSFER PRESSURE TOO SLOW TRANSFER SPEED TOO HIGH MOLD TEMPERATURE TOO LOW SPIRAL FLOW OF MOLDING COMPOUND TOO LOW GEL TIME OF MOLDING COMPOUND INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE IMPROPER MOLDING COMPOUND PREHEATING TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL START/END CHECK FOR INCOMPLETE FILL CONTROLLER CONTROLLER CONTROLLER SPIRAL FLOW CHECK MECH. INSP. CHECK LIST FIRST PIECE CHECK; TRANSPORTATION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2 2 2 2 2 2	MECH. INSP. START CHECK PER SHIFT MECH. INSP. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MOLD MACH. START CHECK PER SHIFT MECH. INSP. START CHECK PER SHIFT START CHECK PER SHIFT & TREND CHART	7 7 7 7 7 7								

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
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																	Current process Controls Detection	Severity	Occurrence	Detection	R.P.N.							
VOID	COSMETIC FAILURE		4					RUNNER BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. START CHECK PER SHIFT	7	56															
								AIR VENT BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. START CHECK PER SHIFT	7	56															
								TOO LOW TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								TOO SLOW TRANSFER SPEED	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	SPIRAL FLOW CHECK	2	MECH. INSP. START CHECK PER SHIFT	7	56															
								TOO LOW GEL TIME OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. START CHECK PER SHIFT	7	56															
								INCOMPATIBLE MODING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANSPORTATION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2	COMPOUND STORAGE START CHECK PER SHIFT	7	56															
								IMPROPER MOLDING COMPOUND PREHEATING	FIRST PIECE CHECK MEASURE MOLDING COMPOUND PRE-HEAT TEMPERATURE	2	COMPOUND PREHEAT START CHECK PER SHIFT	7	56															
								TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	ALARM WHEN THE WAITING TIME OVER 10SEC	2	MECH. INSP. START CHECK PER SHIFT	7	56															
	BURR	CONSMETIC FAILURE		4					MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56														
									MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56														
									TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56														
									TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56														
									DIRTY MOLD CHASE	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56														
									DE-RUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	7	56														
									DIMENSION OUT OF SPECIFICATION			4					MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56						
																	MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56						
																	TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56						
																	TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56						
DIRTY MOLD CHASE	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56																							
DE-RUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	7	56																							
205 TRADITIONAL MOLDING	FLASH ON LEAD FRAME	CONSMETIC FAILURE	4					MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								DIRTY MOLD CHASE	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56															
								TOO THIN LEAD FRAME	IQC INCOMING CHECK	2	IQC START CHECK PER SHIFT	7	56															
								POOR PLATING (ASSEMBLY ISSUES)			5					MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	70							
																MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	70							
																TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	70							
																TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	70							
	DIRTY MOLD CHASE	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	70																						
	TOO THIN LEAD FRAME	IQC INCOMING CHECK	2	IQC START CHECK PER SHIFT	7	70																						
	PINCH ON LEAD FRAME	CONSMETIC FAILURE		4					BOTH TOP & BOTTOM MOLDING TEMPERATURE CAN NOT MATCH	START/END CHECK FOR MOLD TEMP.	2	MOLD MACH. START CHECK PER SHIFT	7	56														
									DEFORMED LEAD FRAME	FIRST PIECE CHECK ADD AUTO LEAD FRAME LOADING MACHINES	2	SOLDERING START CHECK PER SHIFT	7	56														
									LEAD FRAME DIMENSIONS OVER SPEC.	IQC INCOMING CHECK	2	IQC START CHECK PER SHIFT	7	56														
DEFORMED LEADING FRAME									FIRST PIECE CHECK ADD AUTO LEAD FRAME LOADING MACHINES	2	MECH. INSP. START CHECK PER SHIFT	7	56															
LEAD FRAME PREHEATING TIME IS NOT ENOUGH									START/END CHECK FOR MECH. INSP.	2	MECH. INSP. START CHECK PER SHIFT	7	56															
IMPROPER LEAD FRAME PREHEATING TEMPERATURE									CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56															
LEAD FRAME STRESS FAILURE											4					BOTH TOP & BOTTOM MOLDING TEMPERATURE CAN NOT MATCH	START/END CHECK FOR MOLD TEMP.	2	MOLD MACH. START CHECK PER SHIFT	7	56							
																DEFORMED LEAD FRAME	FIRST PIECE CHECK ADD AUTO LEAD FRAME LOADING MACHINES	2	SOLDERING START CHECK PER SHIFT	7	56							
																LEAD FRAME DIMENSIONS OVER SPEC.	IQC INCOMING CHECK	2	IQC START CHECK PER SHIFT	7	56							
																DEFORMED LEADING FRAME	FIRST PIECE CHECK ADD AUTO LEAD FRAME LOADING MACHINES	3	SOLDERING START CHECK PER SHIFT	7	84							
	LEAD FRAME PREHEATING TIME IS NOT ENOUGH	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	7	56																						
IMPROPER LEAD FRAME PREHEATING TEMPERATURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	7	56																							
BEND LEAD FRAME	CONSMETIC FAILURE		4					MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. START CHECK PER SHIFT	7	56															

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
FMEA Rev.: 133
ECN #: 18-7590

Process Function (OI / PI / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	C	I	T	P	O	D	R	Recommended Action(s)	Responsibility & Target Completion Date	Action Results						
													Severity	Detection	Occurrence	Prevention	Actions	S	O
MISMATCH	T/F FAILURE	CONSMETIC FAILURE	4					DE-RUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	7	56						
								IMPROPER TRANSFER FROM/ TO CASSETTE TO LOADING FRAME	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	7	56						
								MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. START CHECK PER SHIFT	7	56						
								DE-RUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	7	56						
								IMPROPER TRANSFER FROM/ TO CASSETTE TO LOADING FRAME	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	7	56						
								MOLD BASE LOCATION PIN SHIFTING	START/END CHECK FOR MOLD CHASE	2	PM RECORD FIRST PIECE CHECK	5	50						
	BODY BROKEN AT T/F	CONSMETIC FAILURE	5						MOLD CHASE LOCATION PIN SHIFTING	START/END CHECK FOR MOLD CHASE	2	PM RECORD	5	50					
									THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MOLD TEMP.	2	MOLD TEMP. START CHECK PER SHIFT	5	50					
									MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. START CHECK PER SHIFT	5	50					
									DE-RUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	5	50					
									THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MOLD TEMP.	2	MOLD TEMP. START CHECK PER SHIFT	5	50					
									ADHESION NOT GOOD BETWEEN LEAD AND COMPOUND	CHANGE GROOVE SHAPE & DEPTH	2	HIREL ROUTINE MONITOR	5	70					
	Gap in package	PCT failure, customer function failure	7						MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. START CHECK PER SHIFT	5	70					
									DE-RUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	MOLD MACH. START CHECK PER SHIFT	5	70					
	SURFACE CONTAMINATED/ROUGH SURFACE	COSMETIC FAILURE	4						INCOMPLETE CHASE CLEANING	FIRST PIECE CHECK AFTER CLEAN	2	LAST PIECE CHECK	4	32					
									EXCESS RELEASING AGENT IN MOLDING COMPOUND	FIRST PIECE CHECK AFTER CLEAN	2	LAST PIECE CHECK	4	32					
	SCRATCH ON SURFACE	COSMETIC FAILURE	4						MOLD CHASE DAMAGED	FIRST PIECE CHECK	2	LAST PIECE CHECK	4	32					
	REVERSAL MOLD	COSMETIC FAILURE	5						REVERSAL LOADING	ERROR PROVING PIN IN PREHEAT PLATE	2	PM RECORD	5	50					
	BODY CRACK	ELECTRICAL FAIL	7						BYG COMPOUND(AMC2-RA) TOO STICKING TO MOLD CHASE	START AND END PIECE CHECK DOUBLE CHECK AFTER CLEANING FOR CHANGING COMPOUND	2	START CHECK PER SHIFT	4	56					
	COPPER BRUSH WIRE SHORT	ELECTRICAL FAIL	7						COPPER BRUSH WIRE REMAINED IN MOLD CHASE CAVITY	ONLY USE COPPER BRUSH FOR CLEANING MATERIAL REMOVING DOUBLE CHECK DUMMY SHOT AFTER MOLD CHASE CLEANING	2	DOUBLE CHECK	5	70					
GEMC MIX TYPE	HALOGEN FREE CONTAMINATION	9						WRONG USE NON- GREEN COMPOUND FOR GREEN ORDERS	CHECK COMPOUND TYPE AT START SHIFT AND PER COMPOUND LOT. DIFFERENT PACKAGE COLOR AND LOCATION FOR GREEN AND NON-GREEN COMPOUND	2	COMPOUND RECORD	9	162	STUDY TO SET-UP SURVEILLANCE FOR F/G BROMINE CONTENT	ENGINEERING TEAM/ROHS TEAM, 3/29/2019.				
206 AUTO MOLDING	INCOMPLETE FILL FAILURE	ENCAPSULATION	5					RUNNER BLOCK	MECH. INSP. FOR INCOMPLETE FILL DURING START/END CHECK	2	START CHECK PER SHIFT	4	40						
								AIR VENT BLOCK	MECH. INSP. FOR INCOMPLETE FILL DURING START/END CHECK	2	START CHECK PER SHIFT	4	40						
								CLEANING IDM RESIDUE	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. CHECK	4	40						
								TOO LOW TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	4	40						
								TOO SLOW TRANSFER SPEED	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	4	40						
								TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. START CHECK PER SHIFT	4	40						
								TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	MECH. INSP. FOR INCOMPLETE FILL DURING START/END CHECK	2	START CHECK PER SHIFT	4	40						
								TOO LOW GEL TIME OF MOLDING COMPOUND	MECH. INSP. FOR INCOMPLETE FILL DURING START/END CHECK	2	START CHECK PER SHIFT	4	40						
								IMPROPER MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANSPORTATION WITH COOLING FUNCTION TRUCK AND STORAGE CONTROL IN COOLING ROOM	2	START CHECK PER SHIFT	4	40						
								HERMETICITY PROBLEM	ENCAPSULATION	7						RUNNER BLOCK	MECH. INSP. FOR INCOMPLETE FILL DURING START/END CHECK	2	START CHECK PER SHIFT
	AIR VENT BLOCK	MECH. INSP. FOR INCOMPLETE FILL DURING START/END CHECK	2	START CHECK PER SHIFT	4	56													
	TOO LOW TRANSFER PRESSURE	MECH. INSP. FOR INCOMPLETE FILL DURING START/END CHECK	2	START CHECK PER SHIFT	4	56													
	TOO SLOW TRANSFER SPEED	CONTROLLER	2	START CHECK PER SHIFT	4	56													
	TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	START CHECK PER SHIFT	4	56													
	TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	CONTROLLER	2	START CHECK PER SHIFT	4	56													
	TOO LOW GEL TIME OF MOLDING COMPOUND	FIRST PIECE CHECK	2	START CHECK PER SHIFT	4	56													
	IMPROPER MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANSPORTATION WITH COOLING FUNCTION TRUCK AND STORAGE CONTROL IN COOLING ROOM	2	START CHECK PER SHIFT	4	56													

Process: SMX
Product: Folded SMA&R&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
FMEA Rev.: 133
ECN #: 18-7590

Process Function (OJ / PI / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C a u s e s	Potential Cause(s) or Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	D e t e c t	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results										
												Actions	S e v e r i t y	O c c u r r e n c e	R. P. N.							
206 AUTO MOLDING	PARTIAL BODY/CHIP (NO IPE)	COSMETIC FAILURE	5	RUNNER BLOCK	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70													
				AIR VENT BLOCK	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70													
				TOO LOW TRANSFER PRESSURE	CONTROLLER	2	START CHECK PER SHIFT	7	70													
				TOO SLOW TRANSFER SPEED	CONTROLLER	2	START CHECK PER SHIFT	7	70													
				TOO HIGH MOLD PRESSURE	CONTROLLER	2	START CHECK PER SHIFT	7	70													
				TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70													
				TOO LOW GEL TIME OF MOLDING COMPOUND	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70													
				IMPROPER MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK: TRANSPORTATION WITH COOLING FUNCTION TRUCK AND STORAGE CONTROL IN COOLING ROOM	2	START CHECK PER SHIFT	7	70													
				VOID	COSMETIC FAILURE	5	RUNNER BLOCK	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70										
							AIR VENT BLOCK	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70										
							TOO LOW TRANSFER PRESSURE	CONTROLLER	2	START CHECK PER SHIFT	7	70										
	TOO SLOW TRANSFER SPEED	CONTROLLER	2				LAST PIECE CHECK	7	70													
	TOO HIGH MOLD PRESSURE	CONTROLLER	2				LAST PIECE CHECK	7	70													
	TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	FIRST PIECE CHECK	2				START CHECK PER SHIFT	7	70													
	TOO LOW GEL TIME OF MOLDING COMPOUND	FIRST PIECE CHECK	2				START CHECK PER SHIFT	7	70													
	IMPROPER MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK: TRANSPORTATION WITH COOLING FUNCTION TRUCK AND STORAGE CONTROL IN COOLING ROOM	2				START CHECK PER SHIFT	7	70													
	BURR	COSMETIC FAILURE	4				MOLD CHASE WORN OUT	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56										
							MOLD CHASE DAMAGED	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56										
							TOO LOW CLAMPING PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	56										
				TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	56													
				DIRTY MOLD CHASE	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56													
				DE-RUNNER MACHINE OUT OF ORDER	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56													
		DIMENSION OUT OF SPECIFICATION	5	MOLD CHASE WORN OUT	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70													
				MOLD CHASE DAMAGED	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70													
				TOO LOW CLAMPING PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	70													
				TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	70													
				DIRTY MOLD CHASE	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	70													
FLASH ON LEAD FRAME	COSMETIC FAILURE	4	MOLD CHASE WORN OUT	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56														
			MOLD CHASE DAMAGED	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56														
			TOO LOW CLAMPING PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	56														
			TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	56														
			DIRTY MOLD CHASE	START/END CHECK FOR MOLD CHASE	2	START CHECK PER SHIFT	7	56														
			TOO THIN LEAD FRAME	IQC INCOMING CHECK	2		7	56														
	POOR PLATING (ASSEMBLY ISSUES)	4	MOLD CHASE WORN OUT	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56														
			MOLD CHASE DAMAGED	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56														
			TOO LOW CLAMPING PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	56														
			TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	FIRST PIECE CHECK	7	56														
			DIRTY MOLD CHASE	START/END CHECK FOR MOLD CHASE	2	START CHECK PER SHIFT	7	56														
PINCH ON LEAD FRAME	COSMETIC FAILURE	4	TOO THIN LEAD FRAME	IQC INCOMING CHECK	2	START CHECK PER SHIFT	7	56														
			BOTH TOP & BOTTOM MOLDING TEMPERATURE CAN NOT MATCH	FIRST PIECE CHECK	2	START CHECK PER SHIFT	7	56														
			DEFORMED LEAD FRAME	ADD AUTO LEAD FRAME LOADING MACHINES	2	SOLDERING START CHECK PER SHIFT	7	56														
			LEAD FRAME DIMENSIONS OVER SPEC.	IQC INCOMING CHECK	2	IQC START CHECK PER SHIFT	7	56														
			RUNNER COMPOUND REMAIN AT DE-RUNNER M/C DIE SURFACE	FIRST PIECE CHECK	3	MOLD CHASE CLEANING PROCEDURE	7	84														
			LEAD FRAME STRESS FAILURE	4	BOTH TOP & BOTTOM MOLDING TEMPERATURE CAN NOT MATCH	START/END CHECK FOR MOLD TEMP.	2	MOLD MACH. START CHECK PER SHIFT	7	56												
					DEFORMED LEAD FRAME	START/END CHECK FOR MECH. INSP.	2	SOLDERING START CHECK PER SHIFT	7	56												
	LEAD FRAME DIMENSIONS OVER SPEC.	IQC INCOMING CHECK			2		7	56														
	BEND LEAD FRAME	COSMETIC FAILURE	4	MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	SCRAP JAMING PARTS	7	56													
				IMPROPER TRANSFER FROM/ TO CASSETTE TO LOADING FRAME	START/END CHECK FOR MECH. INSP.	2	SCRAP JAMING PARTS	7	56													
T/F FAILURE		4	MOLDING COMPOUND STICKING	FIRST PIECE CHECK	2	SCRAP JAMING PARTS	7	56														
			IMPROPER TRANSFER FROM/ TO CASSETTE TO LOADING FRAME	START/END CHECK FOR MECH. INSP.	2	SCRAP JAMING PARTS	7	56														
MISMATCH	COSMETIC FAILURE	5	MOLD BASE LOCATION PIN SHIFTING	START/END CHECK FOR MOLD CHASE	2	PM RECORD	7	70														
			THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MOLD TEMP.	2	MOLD TEMP. START CHECK PER SHIFT	7	70														
	BODY BROKEN AT T/F	5	MOLDING COMPOUND STICKING	FIRST PIECE CHECK	2	SCRAP JAMING PARTS	7	70														
			THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MOLD TEMP.	2	MOLD TEMP. START CHECK PER SHIFT	7	70														
GAP IN PACKAGE	PCT FAILURE, CUSTOMER FUNCTION FAILURE	7	MOLDING COMPOUND STICKING	FIRST PIECE CHECK	2	SCRAP JAMING PARTS	5	70														
			THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MOLD TEMP.	2	MOLD TEMP. START CHECK PER SHIFT	5	70														

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

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Date (Rev.): 01/24/19
FMEA Rev.: 133
ECN #: 18-7590

Process Function (OJ / Pl / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C l a s s	Potential Cause(s) / Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	D e t e c t	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results						
												Actions	S e v e r i t y	O c c u r r e n c e	D e t e c t	R. P. N.		
			7		ADHESION NOT GOOD BETWEEN LEAD AND COMPOUND	CHANGE GROOVE SHAPE & DEPTH	2	HIREL ROUTINE MONITOR	5	70								
			5		LEAD FRAME IMPROPER LOADING ONTO THE DAM BAR TRIMMING M/C	START/END CHECK FOR MECH. INSP.	2	START CHECK PER SHIFT	5	50								
	LEAD FRAME BURR	COSMETIC FAILURE	5		DAM BAR CUTTER WORN OUT	START/END CHECK FOR MECH. INSP.	2	START CHECK PER SHIFT	7	70								
			5		LEAD FRAME IMPROPER LOADING ONTO THE DAM BAR TRIMMING M/C	START/END CHECK FOR MECH. INSP.	2	START CHECK PER SHIFT	7	70								
	SURFACE CONTAMINATED/ROUGH SURFACE	COSMETIC FAILURE	4		INCOMPLETE CHASE CLEANING	FIRST PIECE CHECK AFTER CLEAN	2	LAST PIECE CHECK	7	56								
			4		EXCESS RELEASING AGENT IN MOLDING COMPOUND	FIRST PIECE CHECK AFTER CLEAN	2	LAST PIECE CHECK	4	32								
	SCRATCH ON SURFACE	COSMETIC FAILURE	4		MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. START CHECK PER SHIFT	7	56								
COPPER BRUSH WIRE SHORT	ELECTRICAL FAIL	7		COPPER BRUSH WIRE REMAINED IN MOLD CHASE CAVITY	ONLY USE COPPER BRUSH FOR CLEANING MATERIAL REMOVING DOUBLE CHECK DUMMY SHOT AFTER MOLD CHASE CLEANING	2	DOUBLE CHECK	5	70									
GEMC MIX TYPE	HALOGEN FREE CONTAMINATION	9		WRONG USE NON- GREEN COMPOUND FOR GREEN ORDERS	CHECK COMPOUND TYPE AT START SHIFT AND PER COMPOUND LOT. DIFFERENT PACKAGE COLOR AND LOCATION FOR GREEN AND NON-GREEN COMPOUND	2	COMPOUND RECORD	9	162	STUDY TO SET-UP SURVEILLANCE FOR F/G BROMINE CONTENT	ENGINEERING TEAM/ ROHS TEAM, 3/29/2019.							
220 TRIMMING & FORMING FOR BARREL PLATING	TWIST LEAD	COSMETIC FAILURE	4		DEFORMED LEAD FRAME	PM, ROUTINE MACHINE CLEANING	2	SAMPLING CHECK, TMTT 5S VISION	4	32								
	REVERSE LOADING	REVERSE FORMING	5		MISHANDLING	ADD LOCATION PIN TO PREVENT	2	SAMPLING CHECK, TMTT 5S VISION	4	40								
BODY MICRO CRACK IN TOP BODY	COSMETIC FAILURE	7	1		1.TOO MUCH FLASH REMAINED	REGULAR CLEANING FORMING DIE AND PM CHEMICAL DE-FLASH IN MECO PLATING	2	SAMPLING CHECK	7	98	TO IMPROVE SORTING SYSTEM CAPABILITY	PE & EE & QA, SYSTEM CAN GREEN OUT THIS DEFECT, 6/28/2019						
			2		2. TOO BIG TRIM FORCE ON BODY	START CHECK AND CHANGED TOOLING BY EACH LOT	2	SAMPLING CHECK	7	98								
	RELIABILITY	7	1		1. MOLD BODY MISMATCH	PM	2	SAMPLING CHECK, TMTT CHECK	4	56								
			2		2. BODY GATE BURR TOO BIG	SAMPLING CHECK	2	START CHECK PER SHIFT, TMTT CHECK SAMPLING CHECK	4	56								
			3		3. TRANSFER PIN WORN OUT	ROUTINE MACHINE CLEANING	2	START CHECK PER SHIFT, TMTT CHECK	4	56								
			4		4. DEFORMED LEAD FRAME	PM, ROUTINE MACHINE CLEANING	2	START CHECK PER SHIFT, TMTT CHECK	4	56								
			5		5. FLASH AT TRIMMING DIE	ROUTINE MACHINE CLEANING	2	START CHECK PER SHIFT, TMTT CHECK	4	56								
			6		6.FORMING DIE CHIP	CHECK FORMING DIE ONCE PER 120 PCS L/F	2	START CHECK PER SHIFT, TMTT CHECK	4	56								
			7		7. ABSORBER MALFUNCTION	ROUTINE MACHINE CLEANING	2	SAMPLING CHECK , TMTT CHECK	4	56								
8		8. MISLOCATION OF PUSHER	PM, ROUTINE MACHINE CLEANING	2	SAMPLING CHECK , TMTT CHECK	4	56											
9		9. MISLOCATION OF WALKING BEAN TRANSFER	CHEMICAL DE-FLASH IN MECO PLATING, TMTT add 5s vision check	2	SAMPLING CHECK , TMTT CHECK START CHECK PER SHIFT	4	56											
BODY MICRO CRACK	ELECTRICAL FAIL	7	1		1.TOO MUCH FLASH AT FORMING DIE	REGULAR CLEANING FORMING DIE AND PM CHEMICAL DE-FLASH IN MECO PLATING ROUTINE MACHINE CLEANING	2	START CHECK PER SHIFT, SAMPLING CHECK	7	98	TO IMPROVE SORTING SYSTEM CAPABILITY	PE & EE & QA, SYSTEM CAN GREEN OUT THIS DEFECT, 6/28/2019						
			2		2.TOOLING MISALIGNMENT	PM, ROUTINE MACHINE CLEANING CHEMICAL DE-FLASH IN MECO PLATING	2	START CHECK PER SHIFT, SAMPLING CHECK	7	98								
LEAD BURR	SHORT/HIGH IR	5	1		1. DEBAR TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2	SAMPLING CHECK , TMTT 5S VISION START CHECK PER SHIFT	4	40								
			2		2. SINGULATION TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2	SAMPLING CHECK , TMTT 5S VISION START CHECK PER SHIFT	4	40								
TIN BURR	SHORT/HIGH IR	5	1		1. DEBAR TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2	SAMPLING CHECK , TMTT 5S VISION START CHECK PER SHIFT	4	40								
			2		2. SINGULATION TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2	SAMPLING CHECK , TMTT 5S VISION START CHECK PER SHIFT	4	40								
KEY FORMING DIMENSION OUT OF SPEC	CUSTOMER APPLICATION ISSUE	7	DD		1. FORMING DIE WORN OUT	PM, ROUTINE MACHINE CLEANING FIRST PIECE CHECK	2	START CHECK PER SHIFT FOR KEY DIMENSION , TMTT 5S VISION	4	56								
			2		2. FLASH/RESIN ON DEVICE LEAD	ROUTINE MACHINE CLEANING	2	START CHECK PER SHIFT FOR KEY DIMENSION , TMTT 5S VISION	4	56								
			3		3. FLASH ON FORMING DIE	ROUTINE MACHINE CLEANING	2	START CHECK PER SHIFT FOR KEY DIMENSION , TMTT 5S VISION	4	56								
			4		4. SUPPORTER STUCK	FIRST PIECE CHECK	2	START CHECK PER SHIFT FOR KEY DIMENSION , TMTT 5S VISION	4	56								

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanf Tian, Dennis Liu, Louis Liu, Ebgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
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Process Function (OJ / PI / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	C	I	A	S	Potential Cause(s) of Failure	Current process Controls Prevention	O	C	U	D	R	Recommended Action(s)	Responsibility & Target Completion Date	Action Results																									
																	Current process Controls Detection	e	t	P.	N.	Actions	S	O	D	R.																
	INCOMPLETE FORMING	YIELD LOSS	5					MISLOCATION OF DEVICE TRANSFER MECHANISM	PM, ROUTINE MACHINE CLEANING, FIRST PIECE CHECK	2	,	TMTT 5S VISION SAMPLING CHECK	4	40																												
	POOR L/F J-BEND FORMING	CUSTOMER ASSEMBLY ISSUE	5					1. FORMING DIE WORN OUT	PM, ROUTINE MACHINE CLEANING, FIRST PIECE CHECK	2		SAMPLING CHECK	4	40																												
	MIX TYPE	CUSTOMER APPLICATION FAILURE	8					OPERATOR HANDLING PROBLEM OF OUTLINE DIMENSION CHECK SAMPLES	SCRAP ALL SAMPLES AFTER OUTLINE DIMENSION CHECK,	2		RECORD, + 100% TESTING	4	64																												
	REVERSE LOADING	REVERSE FORMING	5					MISHANDLING	ADD LOCATION PIN TO PREVENT	2		SAMPLING CHECK	7	70																												
221 TRIMMING FOR STRIP PLATING	BODY BROKEN/ BODY CHIP OUT/ DIE CRACK	RELIABILITY	7					1. MOLD BODY MISMATCH 2. BODY GATE BURR TOO BIG 3. TRANSFER PIN WORN OUT 4. DEFORMED LEAD FRAME 5. FLASH AT TRIMMING DIE	PM SAMPLING CHECK ROUTINE MACHINE CLEANING PM, ROUTINE MACHINE CLEANING ROUTINE MACHINE CLEANING CHEMICAL DE-FLASH IN MECO PLATING	2 2 2 2 2		SAMPLING CHECK, TMTT 5S VISION START CHECK PER SHIFT, TMTT 5S VISION SAMPLING CHECK START CHECK PER SHIFT, TMTT 5S VISION START CHECK PER SHIFT, TMTT 5S VISION	4 4 4 4 4	56 56 56 56 56																												
	BODY MICRO CRACK	ELECTRICAL FAIL	7					TOOLING MISALIGNMENT FLASH RESIDUE ON TOOLING	PM, ROUTINE MACHINE CLEANING CHEMICAL DE-FLASH IN MECO PLATING PM, AIR PUMP SPEED MONITOR	2 2		START CHECK PER SHIFT SAMPLING CHECK PM List	7 7	98 98		TO IMPROVE SORTING SYSTEM CAPABILITY	PE & EE & QA, SYSTEM CAN GREEN OUT THIS DEFECT, 6/28/2019																									
	LEAD BURR	SHORT/HIGH IR	5					DEBAR TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2		SAMPLING CHECK, TMTT 5S VISION START CHECK PER SHIFT	4 4	40 40																												
	TIN BURR	SHORT/HIGH IR	5					DEBAR TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2		SAMPLING CHECK, TMTT 5S VISION START CHECK PER SHIFT	4 4	40 40																												
	MIX TYPE	CUSTOMER APPLICATION FAILURE	8					OPERATOR HANDLING PROBLEM OF OUTLINE DIMENSION CHECK SAMPLES	SCRAP ALL SAMPLES AFTER OUTLINE DIMENSION CHECK,	2		RECORD, + 100% TESTING	4	64																												
215 POST MOLDING CURE	UNDER CURING	HERMETICITY PROBLEM	5					TOO LOW CURING TEMPERATURE CURING TIME IS NOT ENOUGH BAKING OVEN OUT OF CONTROL	CONTROLLER CONTROLLER CONTROLLER	2 2 2		START CHECK PER SHIFT AND ROUTINE CHECK START CHECK PER SHIFT AND ROUTINE CHECK START CHECK PER SHIFT AND ROUTINE CHECK	5 5 5	50 50 50																												
	OVER CURING		LEAD OXIDATION	5				TOO HIGH CURING TEMPERATURE TOO LONG CURING TIME	CONTROLLER CONTROLLER	2 2		START CHECK PER SHIFT AND ROUTINE CHECK CHECK LIST	5 5	50 50																												
								CURRENT UNSTABLE IMPROPER PLATING TIME CAHTODE POOR CONTACT ANODE POOR CONTACT	M/C AUTO ALARM CONFIRM WITH MACHINE ROUTINE CHECK AFTER PM ROUTINE CHECK AFTER PM	2 2 2 2		ERROR DETECTION ERROR DETECTION ERROR DETECTION ERROR DETECTION	3 3 3 3	48 48 48 48																												
340 AUTO STRIP PLATING	PLATING THICKNESS OUT OF SPEC	SOLDERABILITY PROBLEM TIN WHISKER	8	DD				PLATING MACHINE STATUS SWITCH TO "STANDBY" WHEN RUNNING PLATING THICKNESS TOO THIN INCORRECT PLATING BATH INGREDIENT DRYING TEMP. OUT OF SPEC. PLATING BATH TEMP. OUT OF SPEC. LOW ACTIVATION CHEMICAL CENTONT	M/C AUTO ALARM MEASURE THICKNESS WITH X-RAY DAILY LAB ANALYSIS M/C AUTO ALARM M/C AUTO ALARM DAILY LAB ANALYSIS M/C AUTO ALARM	2 2 2 2 2 2 2		ERROR DETECTION SPC CHART CONTROL ANALYZE REPORT ERROR DETECTION ANALYZE REPORT ANALYZE REPORT ERROR DETECTION	3 5 5 3 3 3 3	48 80 80 48 48 80 30																												
	DAMAGE BODY	DE-WETTING COSMETIC FAILURE	8 5					TOO HIGH WATER PRESSURE PLATING MACHINE JAMMING	M/C AUTO ALARM M/C AUTO ALARM	3 3		ERROR DETECTION ERROR DETECTION	3 3	45 30																												
	ROUGHNESS BODY	LASER MARKING FAILURE COSMETIC FAILURE	5 5					TOO HIGH WATER PRESSURE TOO LOW STRIP SPEED	M/C AUTO ALARM M/C AUTO ALARM	2 2		ERROR DETECTION ERROR DETECTION	3 3	30 30																												
	DAMAGE DEFORMING LEAD FRAME	JAMMING IN TRIMMING STATION	5					TOO HIGH WATER PRESSURE PLATING MACHINE JAMMING	M/C AUTO ALARM M/C AUTO ALARM	3 3		ERROR DETECTION ERROR DETECTION	3 3	30 45																												
	FLASH ON LEAD FRAME	COSMETIC FAILURE	5					TOO LOW WATER PRESSURE NOZZLES WORN-OUT NOZZLES BLOCK TOO THICK FLASH ON LEAD FRAME	M/C AUTO ALARM ROUTINE CHECK AFTER PM ROUTINE CHECK AFTER PM VISUAL CHECK PER SHIFT	2 2 3 2		ERROR DETECTION PM CHECK LIST PM CHECK LIST CHECK LIST	3 5 5 7	30 50 75 70																												
	SURFACE MOULAGE	SURFACE ABNORMAL	5					DI WATER FLOW METER DON'T OPEN NEUTRALIZATION SOLUTION ABNORMAL	VISUAL CHECK ONCE PER 6H DAILY LAB ANALYSIS	2 2		PREVENTIVE MAINTENANCE ANALYZE REPORT	5 5	50 50																												
	DISCOLORATION	COSMETIC FAILURE	5 5 5 5					POOR POST RINSE PLATING MACHINE JAMMING ADDITIVE OVER DOSING IMPROPER NEUTRALIZATION	M/C AUTO ALARM M/C AUTO ALARM LAB ANALYSIS LAB ANALYSIS	2 2 2 2		CHECK LIST VISUAL CHECK ANALYSIS REPORT ANALYSIS REPORT	5 5 5 5	50 75 50 50																												
	TIN-WHISKER	CUSTOMER COMPLAIN	8					MISS ANNEALLING PROCESS TIME AND TEMP MISTAKE	RECORD IN TRAVELLER M/C AUTO ALARM	2 2		CHECK LIST CHECK LIST	5 5	80 80																												
	HIGH PB CONTENT TWIST LEAD	PB CONTENT OUT OF SPEC COSMETIC FAILURE	9	DT				PLATING SOLUTION POLLUTED DEFORMED LEAD FRAME	ONCE/WEEK AA ANALYSIS PM	1 2		ANALYSIS REPORT SAMPLING CHECK, TMTT 5S VISION	5 4	45 32																												
	220 FORMING FOR STRIP PLATING	REVERSE LOADING	REVERSE FORMING	5					MISHANDLING	ADD LOCATION PIN TO PREVENT	2		SAMPLING CHECK, TMTT 5S VISION	4	40																											
		BODY BROKEN/ BODY CHIP OUT/ DIE CRACK	RELIABILITY	7					1. MOLD BODY MISMATCH 2.FORMING DIE CHIP 3. ABSORBER MALFUNCTION 4. MISLOCATION OF PUSHER TRANSFER 5. MISLOCATION OF WALKING BEAN TRANSFER	PM CHECK FORMING DIE ONCE PER 120 PCS L/F ROUTINE MACHINE CLEANING PM, ROUTINE MACHINE CLEANING CHEMICAL DE-FLASH IN MECO PLATING, PM	2 2 2 2 2		SAMPLING CHECK, TMTT CHECK START CHECK PER SHIFT, TMTT CHECK SAMPLING CHECK, TMTT CHECK SAMPLING CHECK, TMTT CHECK START CHECK PER SHIFT	4 4 4 4 4	56 56 56 56 56																											
		BODY MICRO CRACK	ELECTRICAL FAIL	7					1.TO MUCH FLASH AT FORMING DIE	REGULAR CLEANING FORMING DIE AND PM CHEMICAL DE-FLASH IN MECO PLATING ROUTINE MACHINE CLEANING	2		START CHECK PER SHIFT SAMPLING CHECK	7	98		TO IMPROVE SORTING SYSTEM CAPABILITY	PE & EE & QA, SYSTEM CAN GREEN OUT THIS DEFECT, 6/28/2019																								
		LEAD BURR	SHORT/HIGH IR	5					2. SINGULATION TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2		SAMPLING CHECK, TMTT 5S VISION START CHECK PER SHIFT	4	40																											
		TIN BURR	SHORT/HIGH IR	5					2. SINGULATION TOOLING WORN OUT	PM, ROUTINE MACHINE CLEANING	2		SAMPLING CHECK, TMTT 5S VISION START CHECK PER SHIFT	4	40																											
	KEY FORMING DIMENSION OUT OF SPEC	CUSTOMER APPLICATION ISSUE	7	DD					1. FORMING DIE WORN OUT 2. FLASH/RESIN ON DEVICE LEAD	PM, ROUTINE MACHINE CLEANING FIRST PIECE CHECK ROUTINE MACHINE CLEANING	2 2		START CHECK PER SHIFT FOR KEY DIMENSION, TMTT 5S VISION START CHECK PER SHIFT FOR KEY DIMENSION, TMTT 5S VISION	4 4	56 56																											

Process: SMC
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
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ECN #: 18-7590

Process Function (OJ / Pl / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	C	I	E	Potential Cause(s) or Mechanism(s) of Failure	Current process Controls Prevention	O C C u r r e n t D e t e c t i o n	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results											
														Actions	S	O	D	R. P. N.							
335 AUTO PURE-TIN BARREL PLATING	INCOMPLETE FORMING	YIELD LOSS	5				3. FLASH ON FORMING DIE	ROUTINE MACHINE CLEANING	2	START CHECK PER SHIFT FOR KEY DIMENSION , TMTT SS VISION	4	56													
							4. SUPPORTER STUCK	FIRST PIECE CHECK	2	START CHECK PER SHIFT FOR KEY DIMENSION , TMTT SS VISION	4	56													
	POOR L/F J-BEND FORMING	CUSTOMER ASSEMBLY ISSUE	5				1. FORMING DIE WORN OUT	PM, ROUTINE MACHINE CLEANING, FIRST PIECE CHECK	2	SAMPLING CHECK, START CHECK PER SHIFT	4	40													
							2. MISLOCATION OF DEVICE TRANSFER MECHANISM	PM, ROUTINE MACHINE CLEANING, FIRST PIECE CHECK	2	SAMPLING CHECK, START CHECK PER SHIFT	4	40													
	MIX TYPE	CUSTOMER APPLICATION FAILURE	8				OPERATOR HANDLING PROBLEM OF OUTLINE DIMENSION CHECK SAMPLES	SCRAP ALL SAMPLES AFTER OUTLINE DIMENSION CHECK,	2	RECORD, + 100% TESTING	4	64													
							NON WETTING	8	DD	LOW ACTIVATION CHEMICAL CONTENT	ROUTINE ADD BY SHIFT	2	CHECK LIST	5	80										
	PLATING THICKNESS OUT OF SPEC	SOLDERABILITY PROBLEM TIN WHISKER	8					INCORRECT PLATING BATH INGREDIENT	LAB. ANALYSIS	2	LAB. ANALYSIS REPORT	5	80												
								PLATING BATH TEMP. OUT OF SPEC.	TEMP. CONTROL	2	ERROR DETECTION	3	48												
								ADDITIVE OVER DOSING	TIMER CONTROL	2	VISUAL CHECK	5	80												
								POST-TREATMENT TANK INGREDIENT	LAB. ANALYSIS	2	LAB. ANALYSIS REPORT	5	80												
IMPROPER POST-TREATMENT								TEMP. TIMER CONTROL	2	ERROR DETECTION	3	48													
POOR ROTATION IN POST TRTATMENT								M/C ALARM	2	ERROR DETECTION	3	48													
POOR HOT RINSE								TEMP., TIMER CONTROL	2	ERROR DETECTION	3	48													
BARREL POOR ROTATION AND ELEC. POOR CONTACT								VISUAL CHECK BARREL	2	VISUAL CHECK X-RAY CHECK THICKNESS SOLDERABILITY TEST	5	80													
NO TIMELY RINSE AFTER NEUTRALIZATION								WHEN PLATING LINE SHUT DOWN, TRANSFER BARREL IN RINSE TANK	2	NONE	5	80													
POOR HOT DI WATER RINSE								CHECK HOT DI WATER TANK TEMPERATURE PER 2HOURS	2	VISUAL CHECK	5	80													
IF AD OXIDATION REFORM ANNEALING								USE SPIN DRYING AFTER PLATING	2	WETTING BALANCE CHECK	5	80													
ANNEALLING TEMPERATURE UNSTABLE OR N2 CURRENT UNSTABLE								TEMP., TIMER CONTROL N2 CURRENT CONTROL	2	CHECK LIST WETTING BALANCE CHECK	5	80													
INSUFFICIENT SOLUTION AGITATION								FILTER CONTROL	2	ROUTINE FILTER MAINTAIN SOLDERABILITY TEST	5	80													
PRE-TREATMENT CAPABILITY INSUFFICIENT								ROUTINE ADD CHEMICAL MATERIAL BY SHIFT	2	CHECK LIST	5	40													
BARREL POOR ROTATION								VISUAL CHECK BARREL	2	SPC CHART CONTROL X-RAY CHECK THICKNESS	5	80													
IMPROPER CURRENT								M/C ALARM	2	ERROR DETECTION	2	32													
IMPROPER PLATING QTY								WEIGHT CONTRL	2	METAGE	5	80													
TIN-DREGS ON BARREL								VISUAL CHECK BARREL	2	CHECKLIST	5	80													
BLOCKED BARREL STICK	VISUAL CHECK ALL BARREL	2	CHECK LIST	5	80																				
POOR BARREL CONTACT	VISUAL CHECK ALL BARREL	2	CHECK LIST	5	80																				
RECTIFIER BROKEN-DOWN	M/C ALARM	2	ERROR DETECTION	3	48																				
INCORRECT PLATING BATH INGREDIENT	LAB. ANALYSIS	2	LAB. ANALYSIS REPORT	5	80																				
LEAD IN PRODUCT WAFER POLLUTE PLATING SOLUTION	AA TEST PLATING SOLUTION AND LAYER	2	AA ANALYSIS	5	80																				
Cu EXPOSURE	SOLDERABILITY PROBLEM	8					DEVICE ENTRAP INTO BARREL OR COVER	VISUAL CHECK BARREL	2	CHECK LIST	5	80													
							BLOCKED BARREL STICK	VISUAL CHECK BARREL	2	CHECK LIST	5	80													
							NOT ENOUGH ADDITIVE DOZING	LAB. ANALYSIS	2	LAB ANALYSIS	5	80													
ROUGHNESS DEPOSIT	SOLDERABILITY PROBLEM	8					INSUFFICIENT SOLUTION AGITATION	FILTER CONTROL	2	ROUTINE FILTER MAINTAIN SOLDERABILITY TEST	5	80													
							BARREL POOR ROTATION	VISUAL CHECK BARREL	2	VISUAL CHECK X-RAY CHECK THICKNESS	5	80													
							BLOCKED BARREL STICK	VISUAL CHECK BARREL	2	VISUAL CHECK ALL BARREL	5	80													
PLATING DEPOSIT DISCOLORATION	SOLDERABILITY PROBLEM VISUAL ABNORMAL	8					ADDITIVE OVER DOSING	LAB ANALYSIS	2	ANALYSIS REPORT	5	80													
							BLOCKED BARREL STICK	VISUAL CHECK BARREL	2	VISUAL CHECK	5	80													
							POOR POST RINSE	FLOWMETER CHECK	2	CHECK LIST	7	70													
TIN-WHISKER	COSTOMER COMPLAIN	8					ADDITIVE OVER DOSING	LAB ANALYSIS	2	ANALYSIS REPORT	5	50													
							IMPROPER NEUTRALIZATION	LAB ANALYSIS	2	ANALYSIS REPORT	5	50													
							MISS ANNEALLING PROCESS	RECORD IN TRAVELLER	2	CHECK LIST	2	48													
HIGH PB CONTENT	PB CONTENT OUT OF SPEC	9	DT				TIME AND TEMP MISTAKE	M/C AUTO ALARM	2	CHECK LIST	3	48													
							PLATING SOLUTION POLLUTED	ONCE/WEK AA ANALYSIS	1	ANALYSIS REPORT	5	45													
MIX TYPE	CUSTOMER APPLICATION FAILURE	8					DIODE OUT OF MESH BY VIBRATION	SET UP ISOLATE PLATING BETWEEN TWO MESH	2	VISUAL CHECK PLATE	3	48													
							OPERATOR PICK UP THE DROP MATERIAL AND PUT BACK INTO WRONG MOTHER LOT.	SOP-B5027 PRODUCTION MIXING PREVENTION PROCEDURE. ANY DROP OFF (INCONFIRMED) MATERIAL MUST BE SCRAPPED DIRECTLY	2	WEIGHT CHECK BEFORE AND AFTER PLATING.	3	48													
535 TEST/MARK /TEST/TAPE	BODY BROKEN/SCRATCH/ CHIP	COSMETIC FAILURE	5				1. JAMMING AT ROTATION STATION	SPECIFY TO SCRAP THE JAMMING PARTS, WHICH WERE AUTO HIGHLIGHT BY MACHINE	2	AUTO VISION DETECT	3	30													
							2. JAMMING AT LASER DISK	SPECIFY TO SCRAP THE JAMMING PARTS, WHICH WERE AUTO HIGHLIGHT BY MACHINE	2	AUTO VISION DETECT	3	30													
							3. JAMMING AT TAPPING STATION	SPECIFY TO SCRAP THE JAMMING PARTS, WHICH WERE AUTO HIGHLIGHT BY MACHINE	2	100% VISUAL INSPECTION	5	50													
	OVER KILL	YIELD LOSS	2				1. WRONG TEST PROGRAM	AUTO SCAN AND LOADING TEST PROGRAM	2	100% ELEC TEST AND DOUBLE CONFIRM BY OP	3	12													
	WRONG BINNING	RELIABILITY	8				2. WRONG TESTER ACCURACY	TMTT DAILY CALIBRATION	2	100% ELEC TEST	3	12													
NO MARKING	RELIABILITY	8					MACHINE OPERATION ABNORMAL	BINNING ACCURACY CHECK	2	100% ELEC TEST AND SBL,SYL CONTROL	3	48													
							1. LASER SYSTEM MALFUNCTION	FIRST PIECE CHECK	2	AUTO VISION DETECT ⊖200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	3	48													
							2. LASER SYSTEM TURN OFF	FIRST PIECE CHECK	2	AUTO VISION DETECT ⊖200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	3	48													

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:

Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

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Process Function (OJ / PL / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	C	I	A	S	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O	C	U	D	R.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results					
																	Current process Controls Detection	e	t	P.	N.	Actions
								3. POWER INTERRUPTION	TMTT AUTO-CLEANING	2	TMTT AUTO REJECT	3	48									
								4. RETAPING	FIRST PIECE CHECK	2	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	3	48									
WRONG MARKING	RELIABILITY	7					LOADING WRONG MARKING TEMPLATE	FIRST PIECE CHECK	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	2	3	42										
								AUTO-LOADING MARKING TEMPLATE BY SCAN 1D LABEL	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	2	3	42										
DOUBLE MARKING	COSMETIC FAILURE	4					RETAPING	FIRST PIECE CHECK	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	2	3	24										
ILLEGIBLE MARKING	COSMETIC FAILURE	4					1. LASER SYSTEM MALFUNCTION	FIRST PIECE CHECK	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	2	3	24										
							2. LASER POSITION MISMATCH WITH MOTOR RUNNING DUE TO EXTERNAL ELECTROMAGNETISM SIGNAL INTERFERE	FIRST PIECE CHECK	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	2	3	24										
REVERSE POLARITY	RELIABILITY	2					2. REVERSE POLARITY SETTING	FIRST PIECE CHECK	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	2	3	###										
REVERSE SIDE MARKING	COSMETIC FAILURE	5					REVERSE FROMING	FIRST PIECE CHECK	AUTO VISION DETECT ☆200% VISUAL INSPECTION IN CASE AUTO-VISION MALFUNCTION (ALTERNATIVE SOLUTION)	2	3	30										
DEVICE SIDEWAY IN TAPE	JAMMING AT CUSTOMER MACHINE	5					TAPING STATION UNSMOOTH	ERROR-PROOF ON CONSTRUCTURE ON TMT MACHINE TO PREVENT ESCAPING	AUTO DETECT AND ALARM	1	3	15										
CONTINUED EMPTY OR EMPTY QTY OUT OF GS-4775 SPEC	QTY SHORTAGE	5					TAPING STATION UNSMOOTH	TMTT AUTO-ALARM	SPECIAL CHECK AFTER TAPING STATION REPAIR	2	7	70										
CARRIER TAPE DAMAGE	JAMMING AT CUSTOMER MACHINE	5					1. INCOMING MATERIAL QUALITY	IQC SAMPLING	VISUAL INSPECTION BY CLEAN BALANCE/2HRS/EQUIPEMNT PM/CHANGE COVER OR CARRIER TAPE	2	5	50										
							2. JAMMING AT TMTT	TMTT AUTO ALARM	100% VISUAL INSPECTION	2	7	70										
WRONG VOLUME	HANDLING FAILURE	6					SETTING ERROR	BY PACKAGE IN WORK SHEET	MACHINE AUTO COUNTING	2	3	36										
REVERSE TAPPING	CUSTOMER APPLICATION FAILURE	6					ROTATION MALFUNCTION	TMTT AUTO-ALARM	100% AUTO-VISION	2	3	36										
							ROTATION REVERSE FOR HANDLER BUG DURING EE UPGRADE/DEBUG MACHINE SOFTWARE	FUNCTION FINE TUNE WITH DUMMY DEVICES. AFTER FUNCTION OK BY EE, MFG FINAL INSPECTION =>40KEA TO VERIFY MACHINE UNDER CONTROL	55 AUTO-VISION ALWAYS ON FOR AUTO-MOTIVE ORDER AND ERROR PROOF CONTROL BY MACHINE.	2	3	36										
							DEVICES JAMMING AT TAPING STATION. OPERATOR MAKEUP DEVICES WITH ERROR DIRECTION	PROHIBIT MAKEUP DEVICES AT THE TAPING STATION	100% AUTO-VISION	2	3	36										
REVERSE REELING	CUSTOMER CAN NOT USE REEL ON SMT	5					OPERATOR LOAD REEL AT REVERSE DIRECTOIN	BASED ON REEL SPECIAL SIGN TO CHECK REEL DIRECTION BEFORE LOADING REEL AT TMTT STATION	100% VISUAL INSPECTION	2	7	70										
SPLIT TAPE	TOO HIGH PEELING FORCE	5					1. INCOMING MATERIAL QUALITY	VISUAL INSPECTION BY CLEAN BALANCE SOPPORTOR/2HRS/EQUIPEMNT PM/CHANGE COVER OR CARRIER TAPE	PEELING FORCE CHECK & SPC control (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	2	5	50										
							2. TOO HIGH SEALING TEMP.	CHECK SEALING TEMP. (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	PEELING FORCE CHECK & SPC control (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	2	5	50										
							3. SEALING SHOES WITH GLUE RESIDUAL SEALING TRACK TOUCH COVER TAPE EDGE	CHECK SEALING SHOES DURING ROUTINE PM BY EE	CHECK COVER TAPE SURFACE AND SEALING TRACK PROHIBITED TOUCH EDGE OF COVER TAPE PER 2HRS	2	5	50										
LOOSEN TAPE	TOO LOW PEELING FORCE	5					1. INCOMING MATERIAL QUALITY	VISUAL INSPECTION BY CLEAN BALANCE SOPPORTOR/2HRS/EQUIPEMNT PM/CHANGE COVER OR CARRIER TAPE	PEELING FORCE CHECK & SPC control (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	2	5	50										
							2. DIRTY ON THE SEALING SHOES	CHECK SEALING SHOES DURING ROUTINE PM BY EE	PEELING FORCE CHECK & SPC control (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	2	5	50										
							3. TOO LOW SEALING TEMP.	CHECK SEALING TEMP. (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	PEELING FORCE CHECK & SPC control (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	2	5	50										
							4. BALANCE SOPPORTOR BLOCKED DUE TO CONTAMINATION	CLEAN BALANCE SOPPORTOR (TP/JH PER 12HRS, SILLNER&ISM PER 6HRS)	PEELING FORCE CHECK & SPC control (TP/JH PER 6 HRS, SILLNER PER 3HRS, ISM PER 2HRS, CHANGE COVER OR CARRIER TAPE, EQUIPMENT PM)	2	5	50										
COVER TAPE MISALIGNMENT	COSMETIC FAILURE	5					COVER TAPE SHIFT DURING LOADING	CONTROL COVER TAPE REELING AND LEADING GUIDE	VISUAL INSPECTION BY CLEAN BALANCE SOPPORTOR/2HRS/EQUIPEMNT PM/CHANGE COVER OR CARRIER TAPE	2	4	40										
IR/VF/VZ/TRR/O/S/VFD VC Elec. FAIL	CUSTOMER APPLICATION FAILURE	8	DD				1. WRONG TESTING PROGRAM	1. AUTO-LOADING PROGRAM BY SCAN 1D label 2. DOUBLE CHECK AT BEGINNING;	100% ELEC. TESTING AT LEAST SYL&SBL CONTROL	2	2	32										
							2. ★TESTER ACCURACY	TESTER ACCURACY CHECK;	100% ELEC. TESTING AT LEAST SYL&SBL CONTROL	2	2	32										
							3. ★BINNING ACCURACY	BINNING ACCURACY CHECK;	100% ELEC. TEST SYL&SBL CONTROL	2	3	48										
							4. WRONG OPERATION HANDLING	NO AUTHORITY FOR OPERATOR TO UPDATE TESTER SETTING	100% ELEC. TEST SYL&SBL CONTROL	1	3	24										
							5. WRONG TEST MODE. TEST MODE BE CHANGED DURING OFFLINE STATUS BY MISTAKE	TEST MODE BE DISABLED WHATEVER ONLINE OR OFFLINE STATUS	100% ELECTRICAL TEST, SBL&SYL CONTROL	2	2	32										
							SOFTWARE BUG. TMTT CANT GET THE REAL READING DEVICES BE MOVED UP	1. CHANGE CONTROL MONITOR. EQUIPMENT VERIFICATION TEST WHEN NEW MACHINE OR UPGRADE BUYOFF EE VERIFICATION LIST UPDATED ADD VERIFICATION ITEM 2. PRODUCT FUNCTION TEST (CONSIDER MINIMAL TEST TIME) 3. IR LOW LIMIT SETTINGS FOR MINIMAL TEST TIME	1. EQUIPMENT FUNCTION CHECK LIST (EE) 2. FUNCTION TEST BY PRODUCT	2	3	48										

Process: SMX
Product: Folded SMA&B&C

FMEA Number: FMEA-055-Folded(T)
Customer Part Number:
Core Team: Tracy Ma, Susan Zhao, Sapphire Liu, Dennis wang, Evan Pei, Mike Liu, Austin wang, Rock Jiao, Joy wang, Larry Lv, Costa Yu, Ken Zhang, Arlen Pang, Wanfu Tian, Dennis Liu, Louis Liu, Edgar Feng, Karen Wang, Owen Liu, Kevin Yang

Date (Orig.): 10/15/91
Date (Rev.): 01/24/19
FMEA Rev.: 133
ECN #: 18-7590

Process Function (OI / PI / OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	I	O	C	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O	C	D	R	Recommended Action(s)	Responsibility & Target Completion Date	Action Results								
															u	r	e	P.	Actions	S	O	D	R.
Requirements (Description)			e	v	s				c	o	t	N.											
MIX TYPE	CUSTOMER APPLICATION FAILURE	8	DD	MIX TEST PCB USAGE BETWEEN VF&VFD	ERROR PROOFING ACTION BE IMPLEMENTED,IF ERROR SELECTION,DEVICESBE REJECTED TO BIN BOX	2	IDENTIFY PART NO/LABEL/LOCATION	3	48														
				1. OPERATOR HANDLING PROBLEM	TMTT AUTO-CLEANING WHEN CHANGE LOT, OP DOULE CONFIRM WITH THE 1ST OF FRESH LOT.	2	100% ELECTRICAL TEST, FOLLOW PAT RULE TO SET TESTING PROGRAM	2	32														
				2. DEVICE MIXED BEFORE TMTT	FOLLOW STANDARD PROCEDURE EVERY PROCESS STATION BEFORE TMTT	3	100% ELECTRICAL TEST, FOLLOW PAT RULE TO SET TESTING PROGRAM	2	48														
				3.TTK TESTER OPEN 2PROGRAM INTERFACE.OP_SELECT ERROR PRGRAM	TMTT SOFTWARE UPDATED, ONLY 1PROGRAM INTERFACE AVAILBLE BY SOFTWARE CONTROL, AUTO-LOADING TEST PROGRAM BY SCAN 1D LABEL ONLY	1	100% ELECTRICAL TEST, SBL&SYL AUTO ALARM	2	16														
				4.DOWN LOAD WRONG PROGRAM	AUTO-LOADING TEST PROGRAM BY SCAN 1D LABEL ONLY	1	100% ELECTRICAL TEST, SBL&SYL AUTO ALARM	2	16														
				5.PROVIOUS LOT MIXING TO NEXT LOT ,WITHOUT TAPE CUTTING	1.FOR AUTO CUTTING TAPING :CHANGE TO INTEGRATED CUTTER FROM SCREW FIXING, PREVENT THE GAP BETWEEN CUTTER AND HOLDER, ENSURE AUTO-CUTTING POSITIONING ACCURACY 2.FOR MANUAL CUTTING TAPING, STRAT CHECK PER LOT; 3.WHEN START FRESH LOT, SET TARGE REEL QTY FOR AUTO CUTTING MACHINE, PREVENT ADDITIONAL PARTS, MIXING TO NEXT LOT	2	START CHECK 100% FV FOR MANUAL CUTTING LOT	3	48														
				6.WRONG PROGRAM SETTING	SOP-PD-001(LIST DOWN MIX TYPE RELATED SPECIAL TEST)	2	DCC/PD DOUBLE CHECK BASED ON SOP	3	48														
7.UPLOAD PROGRAM TIME DELAY	PC LINK AUTO-OFFLINE WHEN END LOT, CURRENTLY TEST PROGRAM CLEARED, HANDLER CAN NOT WORK BEFORE NEW TEST PROGRAM UPLOAD	2	100% ELECTRICAL TEST	2	32																		
WRONG LABEL	CUSTOMER APPLICATION FAILURE	8		HANDLING ISSUE	JDE AUTO-PRINTING	1	100% SCAN-SCAN VERIFY, ANY DEFECT REEL WILL BE AUTOALARM	3	24														
550 FINAL INSP.	REVERSE REELING	CUSTOMER APPLICATION FAILURE	5		COVER TAPE SHIFT DURING LOADING	FIX DUMMY REEL	2	100% INSPECTION	5	50													
	DOUBLE LAYER COVER TAPE	INITIAL COVER TAPE TEAGING, STICK ON CARRIER TAPE	5		RETAPING FAIL TO STRIP INITIAL COVER TAPE	TAPE PEELING FORCE CHECK	2	FOLLOW UP TP/JH SAMPLE SIZE	5	50													
	COVER TAPE CARBONIZED	COVER TAPE TEARING	5		RESEALING TEMP. OVER SPEC	FIX THERMAL COUPLE PM CHECK MONTHLY	2	100% INSPECTION	5	50													
	MIX TYPE	CUSTOMER APPLICATION FAILURE	8	DD	HANDLING ISSUE CAUSED WHOLE REEL MIX	ONLY PUT 1LOT MATERIAL ON WORKBENCH	2	100% SCAN-SCAN VERIFY	3	48													
	WRONG LABEL	CUSTOMER APPLICATION FAILURE	8		HANDLING ISSUE	JDE AUTO-PRINTING	1	100% SCAN-SCAN VERIFY, ANY DEFECT REEL WILL BE AUTOALARM	3	24													

Note:
1. In general, if RPN number is over 100, need to take corrective action; also to reduce ranking, should follow the order of: Severity, occurrence and detection.
2. The Rev. before 51 is from Matrix structure.
3. Remark: Machine power off by accident, at the beginning of machine recovery to mass production, keep the same control method, double confirmation for one more time... Refer GSC4681
4. ⚡ Means alternative solution
5. ★ Means error proofing in prevention

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.):06/26/18
FMEA Rev.:106
Ed.N # : 18 / 245

Process Function (OI, PI, OP #) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C o n s e q u e n c e	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	Current process Controls Detection	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results									
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n						
045 AUTO SOLDERING (MATRIX)	INSUFFICIENT SOLDER	RELIABILITY FAILURE	7		PIN BEND	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECK PIN BEND BY JIG CHECKLIST FOR PIN BEND LAST PIECE CHECK	5	70												
					VIBRATOR MALFUNCTION	FIRST PIECE CHECK	2	CHECK VIBRATOR HAS WELL FUNCTION PER SHIFT LAST PIECE CHECK	5	70												
					WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX NO. LAST PIECE CHECK	5	70												
		DIE CRACK (AFTER PCB REFLOW)	7		PIN BEND	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECK PIN BEND BY JIG CHECKLIST FOR PIN BEND LAST PIECE CHECK	5	70												
					VIBRATOR MALFUNCTION	FIRST PIECE CHECK	2	CHECK VIBRATOR HAS WELL FUNCTION PER SHIFT LAST PIECE CHECK	5	70												
					WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX NO. LAST PIECE CHECK	5	70												
	EXCESS SOLDER	HERMETICITY PROBLEM	6		WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX NO. LAST PIECE CHECK	5	60												
					INSUFFICIENT PIN BOX CLEANING	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX CLEAN LAST PIECE CHECK	5	60												
					PIN HEAD DEFORMATION	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECK BY JIG CHECKLIST FOR PIN LAST PIECE CHECK	5	60												
			DIE SHIFT/TILT	8		WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX NO. LAST PIECE CHECK	5	80											
						INSUFFICIENT PIN BOX CLEANING	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX CLEAN LAST PIECE CHECK	5	80											
						PIN HEAD DEFORMATION	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECK BY JIG CHECKLIST FOR PIN LAST PIECE CHECK	5	80											
HIGH IR		6		WRONG PIN BOX(WRONG DIA.)	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX NO. LAST PIECE CHECK	5	60													
				INSUFFICIENT PIN BOX CLEANING	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN BOX CLEAN LAST PIECE CHECK	5	60													
				PIN HEAD DEFORMATION	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST FOR PIN LAST PIECE CHECK	5	60													
MISALIGNED SOLDER		DIE SHIFT (HIGH IR IN THE FIELD)	8		PIN BEND	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECK PIN BEND BY JIG CHECKLIST FOR PIN BEND LAST PIECE CHECK	5	80												
					TRANSFER	SOLDER BRIDGE	6	PIN BOX MISALIGNMENT HIGH SCRAPER PRESSURE	A.FIRST PIECE CHECK. AFTER REPAIRED,CLEAN AND CHANGE PIN BOX B.CHECK	2	LAST PIECE CHECK CHECKLIST FOR SCREEN	5	60									
SOLDER SPLASH TO ADIACENT WORKING STATION (DIE LOADER)		SOLDER BRIDGE (HIGH IR IN THE FIELD)	6			HIGH SCRAPER PRESSURE	MODIFY SCRAPER'S LENGTH	2	CHECKLIST FOR SCREEN	5	60											
	CHIP UPSIDE DOWN				RELIABILITY FAILURE YIELD LOSS	5	LOW BUMP HIGH CAVITY WORN OUT	CHECKLIST FOR CAVITY	2	REFER TO PREBUMP SPEC CHECKLIST	6	60										
CHIP MISALIGNMENT		8		PIN BOX MISALIGNMENT	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	LAST PIECE CHECK	5	80													
				(HIGH IR IN THE FIELD)	NOZZLE BOX MISSALIGNMENT	A.FIRST PIECE CHECK. B.CHECK AFTER CHANGE NOZZLE BOX. C. CHANGE TO MAGNETIC P&P STRUCTURE FOR NOZZLE BOX	2	ROUTINE CHECK 1PCS EACH 20PCS.	5	80												
DIE SHIFT	(HIGH IR IN THE FIELD)	8		BUMP SHAPE CLOSE TO THAT OF NOZZLE			2		5	80												
				HIGH BUMP HEIGHT			2	REFER TO PREBUMP SPEC	6	96												
CHIP MISSING	YIELD LOSS	8		ABNORMAL PRE-HEATING TEMP	START CHECK INSTALL THE ALARM SYSTEM	2	CHECKLIST FOR HOT PLATE	5	80													
				CAVITY WORN OUT			4	CHECK LIST 100% ELEC TESTING	2	64												
				IMPROPER BUMP SHAPE			4	CHECK LIST 100% ELEC TESTING	2	64												
		7		INSUFFICIENT FLUX	A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	LAST PIECE CHECK CHECK LIST	5	80													
				HIGHER HEATING TEMP	START CHECK TEMP,INSTALL THE ALARM SYSTEM	2	CHECKLIST FOR HOT PLATE	5	32													

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.):06/26/18
FMEA Rev.:106
E.L.N # : 18-1245

Process Function (OU, PI, OP #) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C o n s e q u e n c e	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	Current process Controls Detection	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results										
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n							
SOLDER BALL SOLDER OVERHANG	RELIABILITY FAILURE(HIGH IR IN THE FIELD)	LONGER REFLOW TIME WHEN MACHINE JAMMINGT	8		IMPROVE THE VERACITY OF FEEDING STRUCTURE, PREVENT MACHINE JAMMING	2	MACHINE AUTO ALARM WHEN JAMMING	4	64														
					EXCHANGE LONG&SHORT SOLDERING PIN POSITION TO ENLARGE SOLDERING SPACE	2	1. FRIST PIECE CHECK &CHECK LIST	5	64														
					A.FIRST PIECE CHECK. AFTER REPAIRED,CLEAN AND CHANGE PIN BOX B.CHECK C. CHANGE TO MAGNETIC P&P STRUCTURE FOR NOZZLE BOX,SOLDER PASTE AND FLUX TO ENSURE DICE,SOLDER PASTE&FLUX'S POSITION	2	1. FRIST PIECE CHECK &CHECK LIST	5	64														
					A. REFLOW PROGRAM REDESIGN TO AVOID LEAD FRAME OVER HEATING AT HEAT PLATE WHEN LOADING CYLINDER RETRACTING JAM ALARM OR PIN BOX CYLINDER EXTENDING JAM, HEAT PLATE WILL BE FORCED DOWN. B. AUTO ALARM TO INFORM OPERATOR SCRPA THE LEAD FRAME WHEN JAMMING.	2	FRIST PIECE CHECK &ROUTINE CHECK 1/20 PCS 100% INSPECTION	5	64														
					SPECIALY CLEANING MACHINE FOR SOLDERING PIN CLEANING, FORBIDE OTHERS TOOLING CLEANING AT THIS MACHINE	2	1. CHECK PIN FLEXIBILITY AT SHIFT START AND END, AFTER PIN CLEANING AND PREPARING, CHECK IF MACHINE STOP OVER 1 HOUR. 2.SUB-ASSEMBLY DEVICES FRIST PIECE CHECK &ROUTINE CHECK 1/20 PCS 100% INSPECTION	5	64														
					UPDATE MACHINE PROGRAM TO ENSURE REFLOW HOOD CAN'T PUT DOWN IF HAS LEAD FRAME IN REFLOW STATION	1	MACHINE PROGRAME CONTROL--ERROR PROOFING	1	8														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX C. 80 PCS LF AUTO-PROMPT, OPERATOR CHECK, FLUX PLATE & CHECK LF ON TRACK. D.CHANGE TO CYLINDERF FLUX PIN BOX TO REDUCE FAILURE RATE.	2	1. FRIST PIECE CHECK &CHECK LIST	5	64														
SOLDER SPLASH	RELIABILITY FAILURE (HIGH IR IN THE FIELD)	NO FLUX	7		FIRST PIECE CHECK	2	LAST PIECE CHECK	5	70														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	LAST PIECE CHECK	5	56														
MISALIGNMENT (TOP LEAD FRAME)	YIELD LOSS(MOLDING) RELIABILITY FAILURE	PIN DIMENSION OF LEAD FRAME	6		FIX PIN DESIGN	2	IQA CHECK	5	60														
DIE CRACK/CHIPPING	YIELD LOSS RELIABILITY FAILURE (HIGH IR/SHORT IN FIELD)	PIN IN FURNACE WORN OUT	7		A.FIRST PIECE CHECK.	2	END CHECK,(PIN BOX)	5	70														
					B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECK LIST	5	70														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	END CHECK,(PIN BOX) CHECK LIST	5	70														
TOP PAD TILT	YIELD LOSS RELIABILITY FAILURE (HIGH IR/SHORT IN FIELD)	PIN IN FURNACE WORN OUT	7		A.FIRST PIECE CHECK FOR TOP PAD DAMAGE. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX C.SOLDERING PIN STRESS CONTROL, PER EE-SOP-021	2	ROUTINE CHECK(TOP PAD DAMAGE BY PIN MARK) CHECK LIST	5	70														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	END CHECK,(PIN BOX) CHECK LIST CHECK SODERING HEIGHT AT SHIPT START AND EVERY 4 HOURS	5	70														
POOR SOLDERING	YIELD LOSS RELIABILITY FAILURE	ABNORMAL SOLDERING TEMP	7		START CHECK INSTALL THE ALARM SYSTEM	2	END CHECK UHL&K LIS1	5	70														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	CHECKLIST	5	70														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	END CHECK,(PIN BOX) CHECK LIST	5	70														
					START CHECK	2	END CHECK CHECK LIST	5	70														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	END CHECK,(PIN BOX) CHECK LIST	5	70														
					A.FIRST PIECE CHECK. B.CHECK AFTER REPAIRED,CLEAN AND CHANGE PIN BOX	2	END CHECK,(PIN BOX) CHECK LIST	5	70														
					M/C STOP WHEN JAMMING	2	CHECK LIST	5	70														
IMPROVE THE N2 PIPE PLACEMENT	2	SHIFT START AND AFTER PM CHECK & CHECK LIST	5	70																			
LEAD FRAME MISALIGNED WHEN SOLDERING	YIELD LOSS RELIABILITY FAILURE	FIX PIN, DOWNSET, DIMPLE OF LEAD FRAME OUT OF SPEC	5			2	IQA CHECK	5	50														
DIE CRACK WHEN UNLOADING	YIELD LOSS	JAMMING	5		STOP WHEN JAMMING	2	SCRAP JAMMED PARTS	5	50														
LEAD FRAME BENDING	YIELD LOSS	JAMMING	5		STOP WHEN JAMMING	2	SCRAP JAMMED PARTS	5	75														
515 POST CLEANING	FLUX RESIDUAL ON THE DIE SURFACE	HIGH IR (RELIABILITY)	7		INSUFFICIENT CLEANING	2	10PCS PER LOT	5	70														
						2	SAMPLING CHECK	5	70														
205 TRANSFER	INCOMPLETE FILL FAILURE	ENCAPSULATION	5		RUNNER BLOCK	2	START/END CHECK FOR INCOMPLETE FILL	4	40														
					AIR VENT BLOCK	2	START/END CHECK FOR INCOMPLETE FILL	4	40														

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.):06/26/18
FMEA Rev.:106
FLN #: 18-1245

Process Function (OI, PI, OP-#) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C a u s e s	Potential Cause(s)/ Mechanism(s) of Failure	C u r r e n t p r o c e s C o n t r o l s P r e v e n t i o n	O c c u r r e n c e	C u r r e n t p r o c e s C o n t r o l s D e t e c t i o n	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results									
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n						
MOLDING					CLEANING IDM RESIDUE	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO LOW TRANSFER PRESSURE	CONTROLLER	2	100% AUTO-VISION CHECK	4	40												
					TOO SLOW TRANSFER SPEED	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	SPIRAL FLOW CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO LOW GEL TIME OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANSPORTION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2	CHECK LIST 100% AUTO-VISION CHECK	4	40												
					IMPROPER MOLDING COMPOUND PREHEATING	FIRST PIECE CHECK MEASURE MOLDING COMPOUND PRE-HEAT TEMPERATURE	2	CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	ALARM WHEN THE WAITING TIME OVER 10SEC.	2	100% AUTO-VISION CHECK	4	40												
	HERMETIC PROBLEM			5		RUNNER BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						AIR VENT BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO LOW TRANSFER PRESSURE	CONTROLLER	2	100% AUTO-VISION CHECK	4	40											
						TOO SLOW TRANSFER SPEED	CONTROLLER	2	100% AUTO-VISION CHECK	4	40											
						TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	SPIRAL FLOW CHECK	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO LOW GEL TIME OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANSPORTION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2	CHECK LIST 100% AUTO-VISION CHECK	4	40											
						IMPROPER MOLDING COMPOUND PREHEATING	FIRST PIECE CHECK MEASURE MOLDING COMPOUND PRE-HEAT TEMPERATURE	2	CHECK LIST 100% AUTO-VISION CHECK	4	40											
TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	ALARM WHEN THE WAITING TIME OVER 10SEC	2	100% AUTO-VISION CHECK	4	40																	
205 TRANSFER MOLDING	PARTIAL BODY/ CHIP (NO IPE)	COSMETIC FAILURE	5		RUNNER BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					AIR VENT BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO LOW TRANSFER PRESSURE	CONTROLLER	3	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	60												
					TOO SLOW TRANSFER SPEED	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	SPIRAL FLOW CHECK	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40												
					TOO LOW GEL TIME OF MOLDING COMPOUND	FIRST PIECE CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	40												
					INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANSPORTION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2	CHECK LIST & TREND CHART 100% AUTO-VISION CHECK	4	40												
					IMPROPER MOLDING COMPOUND PREHEATING	FIRST PIECE CHECK MEASURE MOLDING COMPOUND PRE-HEAT TEMPERATURE	2	CHECK LIST 100% AUTO-VISION CHECK	4	40												
	TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	ALARM WHEN THE WAITING TIME OVER 10SEC	3	100% AUTO-VISION CHECK	4	60																
	HERMETIC PROBLEM			5		RUNNER BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						AIR VENT BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO LOW TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO SLOW TRANSFER SPEED	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	SPIRAL FLOW CHECK	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						TOO LOW GEL TIME OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40											
						INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANSPORTION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2	CHECK LIST 100% AUTO-VISION CHECK	4	40											
IMPROPER MOLDING COMPOUND PREHEATING						FIRST PIECE CHECK MEASURE MOLDING COMPOUND PRE-HEAT TEMPERATURE	2	CHECK LIST 100% AUTO-VISION CHECK	4	40												
TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	ALARM WHEN THE WAITING TIME OVER 10SEC	3	100% AUTO-VISION CHECK	4	60																	

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.):06/26/18
FMEA Rev.:106
E.L.N # : 18-1243

Process Function (O.I., P.I., O.P.#) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C a u s e s	Potential Cause(s)/ Mechanism(s) of Failure	C u r r e n t p r o c e s C o n t r o l s P r e v e n t i o n	O c c u r r e n c e	C u r r e n t p r o c e s C o n t r o l s D e t e c t i o n	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results												
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n									
VOID	COSMETIC FAILURE	MOLDING COMPOUND	5		RUNNER BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. CHECK 100% VISUAL INSPECTION	4	40															
					AIR VENT BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. CHECK 100% VISUAL INSPECTION	4	40															
					TOO LOW TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40															
					TOO SLOW TRANSFER SPEED	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40															
					TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40															
					TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	SPIRAL FLOW CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	40															
					TOO LOW GEL TIME OF MOLDING COMPOUND	FIRST PIECE CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	40															
					INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANPORTION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2	CHECK LIST 100% AUTO-VISION CHECK	4	40															
					IMPROPER MOLDING COMPOUND PREHEATING	FIRST PIECE CHECK MEASURE MOLDING COMPOUND PRE-HEAT TEMPERATURE	2	CHECK LIST 100% AUTO-VISION CHECK	4	40															
					TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	ALARM WHEN THE WAITING TIME OVER 10SEC	3	100% AUTO-VISION CHECK	4	60															
	HERMETIC PROBLEM			5		RUNNER BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. CHECK 100% AUTO-VISION CHECK	4	40														
						AIR VENT BLOCK	START/END CHECK FOR INCOMPLETE FILL	2	MECH. INSP. CHECK 100% AUTO-VISION CHECK	4	40														
						TOO LOW TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO SLOW TRANSFER SPEED	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO HIGH MOLD TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO LOW SPIRAL FLOW OF MOLDING COMPOUND	SPIRAL FLOW CHECK	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO LOW GEL TIME OF MOLDING COMPOUND	START/END CHECK FOR INCOMPLETE FILL	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						INCOMPATIBLE MOLDING COMPOUND TRANSFER/STORAGE TEMPERATURE	FIRST PIECE CHECK; TRANPORTION CONTROL AND STORAGE CONTROL IN COOLING ROOM	2	CHECK LIST 100% AUTO-VISION CHECK	4	40														
						IMPROPER MOLDING COMPOUND PREHEATING	FIRST PIECE CHECK MEASURE MOLDING COMPOUND PRE-HEAT TEMPERATURE	2	CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO LONG WAITING TIME AFTER PREHEATING OF MOLDING COMPOUND	ALARM WHEN THE WAITING TIME OVER 10SEC	3	100% AUTO-VISION CHECK	4	60														
BURR	COSMETIC FAILURE		4		MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					DIRTY MOLD CHASE DERUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MOLD CHASE FIRST PIECE CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	32															
	DIMENSION OUT OF SPECIFICATION			5		MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						DIRTY MOLD CHASE DERUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MOLD CHASE FIRST PIECE CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	40														
205 TRANSFER FRAME MOLDING	FLASH ON LEAD	COSMETIC FAILURE	4		MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32															
					DIRTY MOLD CHASE TOO THIN LEAD FRAME	START/END CHECK FOR MOLD CHASE IQC INCOMING CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	32															
	POOR PLATING (ASSEMBLY ISSUES)			5		MOLD CHASE WORN OUT	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						MOLD CHASE DAMAGED	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO LOW CLAMPING PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						TOO HIGH TRANSFER PRESSURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														
						DIRTY MOLD CHASE	START/END CHECK FOR MOLD CHASE	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	40														

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin, Selina Yang, David He, Tracy Mu, Susan Zhao, Sapphire Liu, Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.): 06/26/18
FMEA Rev.: 106
Ed. N # : 18 / 245

Process Function (OI, PI, OP-#)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C o n s e q u e n c e s	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	Current process Controls Detection	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results										
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n	R. P. N.						
PINCH ON LEAD FRAME	CONSMETIC FAILURE		4		TOO THIN LEAD FRAME	IQC INCOMING CHECK	2	IQC CHECK LIST 100% AUTO-VISION CHECK	4	40													
					BOTH TOP & BOTTOM MOLDING TEMPERAUTE CAN NOT MATCH	START/END CHECK FOR MOLD TEMP.	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32													
					DEFORMED LEAD FRAME	FIRST PIECE CHECK/ADD AUTO LEAD FRAME LOADING MACHINES	2	MOLDING CHECK LIST 100% AUTO-VISION CHECK	4	32													
					LEAD FRAME DIMENSIONS OVER SPEC.	IQC INCOMING CHECK	2	IQC CHECK LIST 100% AUTO-VISION CHECK	4	32													
					DEFORMED LEADING FRAME	FIRST PIECE CHECK/ADD AUTO LEAD FRAME LOADING MACHINES	3	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	48													
					LEAD FRAME PREHEATING TIME IS NOT ENOUGH	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	32													
					IMPROPER LEAD FRAME PREHEATING TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32													
	LEAD FRAME STRESS FAILURE		4			BOTH TOP & BOTTOM MOLDING TEMPERAUTE CAN NOT MATCH	FIRST PIECE CHECK	2	CHECK LIST 100% AUTO-VISION CHECK	4	32												
						DEFORMED LEAD FRAME		2	MOLDING CHECK LIST 100% AUTO-VISION CHECK	4	32												
						LEAD FRAME DIMENSIONS OVER SPEC.	IQC INCOMING CHECK	2	100% AUTO-VISION CHECK	4	32												
						DEFORMED LEADING FRAME	FIRST PIECE CHECK/ADD AUTO LEAD FRAME LOADING MACHINES	3	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	48												
						LEAD FRAME PREHEATING TIME IS NOT ENOUGH	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	32												
						IMPROPER LEAD FRAME PREHEATING TEMPERATURE	CONTROLLER	2	MOLD MACH. CHECK LIST 100% AUTO-VISION CHECK	4	32												
BEND LEAD FRAME	CONSMETIC FAILURE		4		MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	32													
					DERUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	32													
					IMPROPER TRANSFER FROM/ TO CASSETTE TO LOADING FRAME	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	32													
	T/F FAILURE		4			MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	CHECK LIST 100% AUTO-VISION CHECK	4	32												
						DERUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	CHECK LIST 100% AUTO-VISION CHECK	4	32												
						IMPROPER TRANSFER FROM/ TO CASSETTE TO LOADING FRAME	START/END CHECK FOR MECH. INSP.	2	CHECK LIST 100% AUTO-VISION CHECK	4	32												
MISMATCH	YIELD LOSS		5		MOLD BASE LOCATION PIN SHIFTING	START/END CHECK FOR MECH. INSP.	2	PM RECORD	6	60													
					MOLD CHASE LOCATION PIN SHIFTING	START/END CHECK FOR MECH. INSP.	2	PM RECORD	6	60													
					THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MECH. INSP.	2	CHECK LIST	5	50													
	BODY BROKEN AT T/F		5			MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	PM RECORD	6	60												
						DERUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	PM RECORD	6	60												
						THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MECH. INSP.	2	CHECK LIST	5	50												
RELIABILITY (PCT)	RELIABILITY FAILURE		7		MOLDING COMPOUND STICKING	START/END CHECK FOR MECH. INSP.	2	PM RECORD	6	84													
					DERUNNER MACHINE OUT OF ORDER	START/END CHECK FOR MECH. INSP.	2	PM RECORD	6	84													
					THE TEMPERATURE VARIANCE BETWEEN TOP AND BOTTOM CHASE IS TOO MUCH	START/END CHECK FOR MECH. INSP.	2	CHECK LIST	5	70													
				7		DELAMINATION BETWEEN MCP AND LEADFRAME	CHOOSE MOLDING COMOUND WITH HIGH ADHESION FORCE	1	HI-RELIABILITY MONITOR (PCT TEST)	9	63												
SURFACE CONTAMINATED OIL ROUGH SURFACE	YIELD LOSS		4		FIRST PIECE CHECK AFTER CLEAN	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	32													
SCRATCH ON SURFACE	YIELD LOSS		4		MOLD CHASE DAMAGED	START/END CHECK FOR MECH. INSP.	2	MECH. INSP. CHECK LIST 100% AUTO-VISION CHECK	4	32													
COPPER BRUSH WIRE SHORT	ELECTRICAL FAIL		7		COPPER BRUSH WIRE REMAINED IN MOLD CHASE CAVITY	ONLY USE COPPER BRUSH FOR CLEANING MATERIAL REMOVING DOUBLE CHECK DUMMY SHOT AFTER MOLD CHASE CLEANING	2	CHECK LIST	5	70													
GEMC MIX TYPE	HALOGEN FREE CONTAMINATION		9		WRONG USE NON- GREEN COMPOUND FOR GREEN ORDERS	CHECK COMPOUND TYPE AT START SHIFT AND PER COMPOUND LOT GREEN ORDER LF IN DIFFERENT COLOR CONTAINER, SET IN SPECIAL LOCATION.	2	CHECK LIST	9	162	Study to set-up surveillance for FG Bromine content	Engineering team/ ROHS team, 3/30/2019.	Surveillance F/G Bromine content	9	2	6	108						
220 TRIMMING	TWIST LEAD	YIELD LOSS	4		DEFORMED LEAD FRAME		2	SAMPLING CHECK 100% AUTO-VISION CHECK	4	32													

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.):06/26/18
FMEA Rev.:106
E.L.N # : 18-1245

Process Function (OU, PT, OP #) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C o n s e q u e n c e	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	Current process Controls Detection	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results									
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n						
& FORMING	REVERSE LOADING	REVERSE FORMING	5		MISHANDLING	ADD LOACATION PIN TO PREVENT	1	SAMPLING CHECK		5	25											
	BODY BROKEN/ BODY CHIP OUT/ DIE CRACK	RELIABILITY	7	1. MOLD BODY MISMATCH			2	SAMPLING CHECK 100% AUTO-VISION CHECK		4	56											
				2. BODY GATE BURR TOO BIG			2	CHECK LIST SAMPLING CHECK		4	56											
				3. TRANSFER PIN WORN OUT	SOP-B5014		2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
				4. DEFORMED LEAD FRAME			2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
				5. FLASH AT TRIMMING DIE	SOP-B5014		2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
				6.FORMING DIE CHIP	CHECK FORMING DIE ONCE PER 120 PCS L/F		2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
				7. ABSORBER MALFUNCTION	SOP-B5014		2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
				8. MISLOCATION OF PUSHER TRANSFER			2	SAMPLING CHECK 100% AUTO-VISION CHECK		4	56											
9. MISLOCATION OF WALKING BEAN TRANSFER						2	SAMPLING CHECK 100% AUTO-VISION CHECK		4	56												
LEAD BURR	SHORT/HIGH IR	5	1. DEBAR TOOLING WORN OUT		PM_SOP-B5014	2	SAMPLING CHECK 100% AUTO-VISION CHECK		4	40												
			2. SINGULATION TOOLING WORN OUT		PM_SOP-B5014	2	SAMPLING CHECK CHECK LIST		4	40												
	TIN BURR	SHORT/HIGH IR	5	1. DEBAR TOOLING WORN OUT		PM_SOP-B5014	2	SAMPLING CHECK 100% AUTO-VISION CHECK		4	40											
				2. SINGULATION TOOLING WORN OUT		PM_SOP-B5014	2	SAMPLING CHECK CHECK LIST		4	40											
	KEY FORMTING DIMENSION OUT OF SPEC	CUSTOMER APPLICATION ISSUE	7	DD	1. FORMING DIE WORN OUT		PM_SOP-B5014 FIRST PIECE CHECK	2	CHECK LIST EWMA FOR KEY DIMENSION 100% AUTO-VISION CHECK		4	56										
					2. FLASH/RESIN ON DEVICE LEAD		SOP-B5014	2	CHECK LIST EWMA FOR KEY DIMENSION 100% AUTO-VISION CHECK		4	56										
		3. FLASH ON FORMING DIE		SOP-B5014	2	CHECK LIST EWMA FOR KEY DIMENSION 100% AUTO-VISION CHECK		4	56													
		4. SUPPORTER STUCK		FIRST PIECE CHECK	2	CHECK LIST EWMA FOR KEY DIMENSION 100% AUTO-VISION CHECK		4	56													
	INCOMPLETE FORMING	YIELD LOSS	5		MISLOCATION OF DEVICE TRANSFER MECHANISM		2	CHECKLIST SAMPLING CHECK 100% AUTO-VISION CHECK		4	40											
	POOR L/F J-BEND FORMING	CUSTOMER APPLICATION ISSUE	5	1. FORMING DIE WORN OUT		PM_SOP-B5014 SOP-B5035 FIRST PIECE CHECK	2	CHECKLIST,SAMPLING CHECK 100% AUTO-VISION CHECK		4	40											
				2.MISLOCATION OF DEVICE TRANSFER MECHANISM		FIRST PIECE CHECK	2	CHECKLIST,SAMPLING CHECK 100% AUTO-VISION CHECK		4	40											
	221 TRIMMING FOR STRIP PLATING	REVERSE LOADING	REVERSE FORMING	5		MISHANDLING	ADD LOCATION PIN TO PREVENT	1	SAMPLING CHECK		5	25										
BODY BROKEN/ BODY CHIP OUT/ DIE CRACK		RELIABILITY	7	1. MOLD BODY MISMATCH			2	SAMPLING CHECK 100% AUTO-VISION CHECK		4	56											
				2. BODY GATE BURR TOO BIG			2	CHECK LIST SAMPLING CHECK 100% AUTO-VISION CHECK		4	56											
				3. TRANSFER PIN WORN OUT	SOP-B5014 & TOP-600		2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
				4. DEFORMED LEAD FRAME			2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
				5. FLASH AT TRIMMING DIE	SOP-B5014 & TOP-600/CHEMICAL DE-FLASH IN MECO PLATING		2	CHECK LIST 100% AUTO-VISION CHECK		4	56											
BODY MICRO CRACK		ELECTRICAL FAIL	7		TOOLING MISALIGNMENT	PM.SOP-B5014 CHEMICAL DE-FLASH IN MECO PLATING	2	SAMPLING CHECK CHECK LIST 100% AUTO-VISION CHECK		4	56											
LEAD BURR		SHORT/HIGH IR	5		DEBAR TOOLING WORN OUT	PM_SOP-B5014	2	SAMPLING CHECK CHECK LIST 100% AUTO-VISION CHECK		4	70											
TIN BURR		SHORT/HIGH IR	5		DEBAR TOOLING WORN OUT	PM_SOP-B5014	2	SAMPLING CHECK CHECK LIST 100% AUTO-VISION CHECK		4	40											
MIX TYPE	CUSTOMER APPLICATION FAILURE	8		OPERATOR HANDLING PROBLEM OF OUTLINE DIMENSION CHECK SAMPLES	SCRAP ALL SAMPLES AFTER OUTLINE DIMENSION CHECK.TSOP-B5035	2	RECORD,+ 100% TESTING		4	64												
215 POST MOLDING	UNDER CURING	HERMETICITY PROBLEM	5	TOO LOW CURING		CONTROLLER	2	CHECK LIST		5	50											
				CURING TIME IS NOT		CONTROLLER	2	CHECK LIST		5	50											

Process: SMX
Product: Matrix SMA&B&C

FMEA Number: FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin, Selina Yang, David He, Tracy Mu, Susan Zhao, Sapphire Liu, Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.): 06/26/18
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Ed. N # : 18-1245

Process Function (OU, PI, OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S	C	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O	Current process Controls Detection	D	R.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results								
													e	v	c	R.					
CURE	OVER CURING				ENOUGH BAKING OVEN OUT OF CONTROL		2	CHECK LIST		5	50										
					LEAD OXIDATION	CONTROLLER		2	CHECK LIST		5	50									
340 AUTO STRIP PLATING	PLATING THICKNESS OUT OF SPEC	SOLDERABILITY PROBLEM TIN WHISKER	8	DD	CURRENT UNSTABLE	M/C AUTO ALARM	2	ERROR DETECTION		3	48										
					IMPROPER PLATING TIME	CONFIRM WITH MACHINE	2	ERROR DETECTION		3	48										
					CAHTODE POOR CONTACT	ROUTINE CHECK AFTER PM	2	ERROR DETECTION		3	48										
					ANODE POOR CONTACT	ROUTINE CHECK AFTER PM	2	ERROR DETECTION		3	48										
					TOO LONG CURING TIME	CONTROLLER	2	CHECK LIST		5	50										
	POOR SOLDERABILITY	NON-WETTING	8	DD	PLATING MACHINE STATUS SWITCH TO "STANDBY" WHEN RUNNING	M/C AUTO ALARM	2	ERROR DETECTION		3	48										
					PLATING THICKNESS TOO THIN	MEASURE THICKNESS WITH X-RAY	2	SPC CHART CONTROL		5	80										
					INCORRECT PLATING BATH INGREDIENT	DAILY LAB ANALYSIS	2	ANALYZE REPORT		5	80										
					DRYING TEMP. OUT OF SPEC.	M/C AUTO ALARM	2	ERROR DETECTION		3	48										
					PLATING BATH TEMP. OUT OF SPEC.	M/C AUTO ALARM	2	ERROR DETECTION		3	48										
	DAMAGE BODY	COSMETIC FAILURE	5		LOW ACTIVATION CHEMICAL CENTONT	DAILY LAB ANALYSIS	2	ANALYZE REPORT		5	80										
					TOO HIGH WATER PRESSURE	M/C AUTO ALARM	2	ERROR DETECTION		3	30										
	ROUGHNESS BODY	LASER MARKING FAILURE	5		PLATING MACHINE JAMMING	M/C AUTO ALARM	3	ERROR DETECTION		3	45										
					COSMETIC FAILURE	TOO LOW STRIP SPEED	M/C AUTO ALARM	2	ERROR DETECTION		3	30									
	DAMAGE DEFORMING LEAD FRAME	JAMMING IN TRIMMING STATION	5		TOO HIGH WATER PRESSURE	M/C AUTO ALARM	2	ERROR DETECTION		3	30										
					PLATING MACHINE JAMMING	M/C AUTO ALARM	3	ERROR DETECTION		3	45										
	FLASH ON LEAD FRAME	COSMETIC FAILURE	5		TOO LOW WATER PRESSURE	M/C AUTO ALARM	2	ERROR DETECTION		3	30										
					NOZZLES WORN-OUT	ROUTINE CHECK AFTER PM	2	PM CHECK LIST		5	50										
					NOZZLES BLOCK	ROUTINE CHECK AFTER PM	3	PM CHECK LIST		5	75										
					TOO THICK FLASH ON LEAD FRAME	VISUAL CHECK PER SHIFT	2	CHECK LIST		7	70										
	SURFACE MOULAGE	SURFACE ABNORMAL	5		DI WATER FLOW METER DON'T OPEN	VISUAL CHECK ONCE PER 6H	2	PREVENTIVE MAINTENANCE		5	50										
					NEUTRALIZATION SOLUTION ABNORMAL	DAILY LAB ANALYSIS	2	ANALYZE REPORT		5	50										
	DISCOLORATION	COSMETIC FAILURE	5		POOR POST RINSE	ROUTINE CHECK AFTER PM	2	CHECK LIST		5	50										
					PLATING MACHINE JAMMING	M/C AUTO ALARM	3	VISUAL CHECK		5	75										
ADDITIVE OVER DOSING					LAB ANALYSIS	2	ANALYSIS REPORT		5	50											
IMPROPER NEUTRALIZATION					LAB ANALYSIS	2	ANALYSIS REPORT		5	50											
TIN-WHISKER	COSTOMER COMPLAIN	8		MISS ANNEALLING PROCESS	RECORD IN TRAVELLER	2	CHECK LIST		5	80											
				TIME AND TEMP MISTAKE	M/C AUTO ALARM	2	CHECK LIST		5	80											
HIGH PB CONTENT	PB CONTENT OUT OF SPEC	9	DI	PLATING SOLUTION POLLUTED	ONCE/WEEK AA ANALYSIS	1	ANALYSIS REPORT		5	45											
335 AUTO PURE-TIN BARREL PLATING	POOR SOLDERABILITY	NON WETTING	8	DD	LOW ACTIVATION	ROUTINE ADD BY SHIFT	2	CHECK LIST		5	80										
					CHEMICAL CONTENT																
					INCORRECT PLATING BATH INGREDIENT	LAB. ANALYSIS	2	LAB. ANALYSIS REPORT		5	90										
					PLATING BATH TEMP. OUT OF SPEC.	TEMP. CONTROL	2	ERROR DETECTION		3	48										
					ADDITIVE OVER DOSING	TIMER CONTROL	2	VISUAL CHECK		5	80										
					POST-TREATMENT TANK INGREDIENT	LAB. ANALYSIS	2	LAB. ANALYSIS REPORT		5	80										
					IMPROPER POST-TREATMENT	TEMP., TIMER CONTROL	2	ERROR DETECTION		3	48										
					POOR ROTATION IN POST TREATMENT	M/C ALARM	2	ERROR DETECTION		3	48										
					POOR HOT RINSE	TEMP., TIMER CONTROL	2	ERROR DETECTION		3	48										
					BARREL POOR ROTATION AND ELEC. POOR CONTACT	VISUAL CHECK BARREL	2	SPC CHART CONTROL X-RAY CHECK THICKNESS SOLDERABILITY TEST		5	80										
					NO TIMELY RINSE AFTER NEUTRALIZATION	WHEN PLATING LINE SHUT DOWN, TRANSFER BARREL IN RINSE TANK	2			5	80										
					POOR HOT DI WATER RINSE	CHECK HOT DI WATER TANK REMPERATURE PER 2HOURS	2	VISUAL CHECK		5	80										
					LEAD OXIDATION BEFORE ANNEALLING	USE SPIN DRYING AFTER PLATING	2	WETTING BALANCE CHECK		5	80										
					ANNEALLING TEMPERATURE UNSTABLE OR N2 CURRENT UNSTABLE	TEMP., TIMER CONTROL N2 CURRENT CONTROL	2	CHECK LIST WETTING BALANCE CHECK		5	80										
					DE-WETTING	INSUFFICIENT SOLUTION AGITATION	8		FILTER CONTROL		2	ROUTINE FILTER MAINTAIN SOLDERABILITY TEST		5	80						

Process: SMX
Product: Matrix SMA&B&C

FMEA Number: FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin, Selina Yang, David He, Tracy Mu, Susan Zhao, Sapphire Liu, Dennis Wang

Date (Orig.): 10/15/91
Date (Rev.): 06/26/18
FMEA Rev.: 106
E.N. #: 18-1245

Process Function (OI, PI, OP, S) Requirements (Description)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C o n s e q u e n c e s	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	Current process Controls Detection	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results																																								
													Actions Taken	S e v e r i t y	O c c u r r e n c e	R. P. N.																																					
PLATING THICKNESS OUT OF SPEC	SOLDERABILITY PROBLEM TIN WHISKER	PRE-TREATMENT CAPABILITY INSUFFICIENT	8	DD	ROUTINE ADD BY SHIFT	ROUTINE ADD BY SHIFT	2	CHECK LIST	5	80																																											
					BARREL POOR ROTATION	VISUAL CHECK BARREL	2	CHECK LIST X-RAY CHECK THICKNESS	5	80																																											
					IMPROPER CURRENT	M/C ALARM	2	ERROR DETECTION	3	48																																											
					IMPROPER PLATING QTY	WEIGHT CONTRL	2	METAGE	5	80																																											
					TIN-DREGS ON BARREL	VISUAL CHECK BARREL	2	CHECKLIST	5	80																																											
					BLOCKED BARREL STICK	VISUAL CHECK ALL BARREL	2	CHECK LIST	5	80																																											
					POOR BARREL CONTACT	VISUAL CHECK ALL BARREL	2	CHECK LIST	5	80																																											
					RECTIFIER BROKEN-DOWN	M/C ALARM	2	ERROR DETECTION	3	48																																											
					INCORRECT PLATING	LAB. ANALYSIS	2	LAB. ANALYSIS REPORT	5	80																																											
					BATH INGREDIENT	LAB. ANALYSIS	2	LAB. ANALYSIS REPORT	5	80																																											
					LEAD IN PRODUCT WAFER POLLUTE PLATING SOLUTION	AA TEST PLATING SOLUTION AND LAYER	2	AA ANALYSIS	5	80																																											
					Cu EXPOSURE	SOLDERABILITY PROBLEM	DEVICE ENTRAP INTO BARREL OR COVER	8		VISUAL CHECK BARREL	VISUAL CHECK BARREL	2	CHECK LIST	5	80																																						
										BLOCKED BARREL STICK	VISUAL CHECK BARREL	2	CHECK LIST	5	80																																						
										NOT ENOUGH ADDITIVE DOZING	LAB. ANALYSIS	2	LAB ANALYSIS	5	80																																						
					ROUGHNESS DEPOSIT	SOLDERABILITY PROBLEM	INSUFFICIENT SOLUTION AGITATION	8		FILTER CONTROL	FILTER CONTROL	2	ROUTINE FILTER MAINTAIN SOLDERABILITY TEST	5	80																																						
BARREL POOR ROTATION	VISUAL CHECK BARREL	2	VISUAL CHECK X-RAY CHECK THICKNESS	5						80																																											
PLATING DEPOSIT	SOLDERABILITY PROBLEM	BLOCKED BARREL STICK	8		VISUAL CHECK BARREL	VISUAL CHECK BARREL	2	VISUAL CHECK ALL BARREL	5	80																																											
					ADDITIVE OVER DOSING	LAB ANALYSIS	2	ANALYSIS REPORT	5	80																																											
DISCOLORATION	VISUAL ABNORMAL	BLOCKED BARREL STICK	8		VISUAL CHECK BARREL	VISUAL CHECK BARREL	2	VISUAL CHECK	5	80																																											
					POOR POST RINSE	FLOWMETER CHECK	2	CHECK LIST	7	70																																											
TIN-WHISKER	CUSTOMER COMPLAIN	ADDITIVE OVER DOSING	5		LAB ANALYSIS	LAB ANALYSIS	2	ANALYSIS REPORT	5	50																																											
					IMPROPER NEUTRALIZATION	LAB ANALYSIS	2	ANALYSIS REPORT	5	50																																											
					MISS ANNEALLING PROCESS	RECORD IN TRAVELLER	2	CHECK LIST	5	80																																											
HIGH PB CONTENT	PB CONTENT OUT OF SPEC	TIME AND TEMP MISTAKE	8	DT	M/C AUTO ALARM	M/C AUTO ALARM	2	CHECK LIST	3	48																																											
					PLATING SOLUTION POLLUTED	ONCE/WEEK AA ANALYSIS	1	ANALYSIS REPORT	5	45																																											
MIX TYPE	CUSTOMER APPLICATION FAILURE	DIODE OUT OF MESH BY VIBRATION	8		SET UP ISOLATE PLATING BETWEEN TWO MESH	SET UP ISOLATE PLATING BETWEEN TWO MESH	2	VISUAL CHECK PLATE	5	80																																											
					OPERATOR PICK UP THE DROP MATERIAL AND PUT BACK INTO WRONG MOTHER LOT.	SOP-B5027 PRODUCTION MIXING PREVENTION PROCEDURE. ANY DROP OFF(UNCONFIRMED) MATERIAL MUST BE SCRAPPED DIRECTLY.	2	WEIGHT CHECK BEFORE AND AFTER PLATING.	5	80																																											
220 FORMING FOR STRIP PLATING	TWIST LEAD	COSMETIC FAILURE	4		DEFORMED LEAD FRAME	DEFORMED LEAD FRAME	2	SAMPLING CHECK 100% AUTO-VISION CHECK	4	32																																											
					BODY BROKEN/ BODY CHIP OUT/ DIE CRACK	RELIABILITY	1. MOLD BODY MISMATCH	7		CHECK FORMING DIE ONCE PER 120 PCS L/F	CHECK FORMING DIE ONCE PER 120 PCS L/F	2	CHECK LIST 100% AUTO-VISION CHECK	4	56																																						
										2. FORMING DIE CHIP	3. ABSORBER MALFUNCTION	4. MISLOCATION OF PUSHER TRANSFER	2	100% AUTO-VISION CHECK	4	56																																					
																											5. MISLOCATION OF WALKING	CHEMICAL DE-FLASH IN MECO PLATING	2	SAMPLING CHECK	4	56																					
																																										BEAN TRANSFER	CHECK LIST 100% AUTO-VISION CHECK	2	SAMPLING CHECK CHECK LIST	6	84						
					LEAD BURR	SHORT/HIGH IR	2. SINGULATION TOOLING WORN OUT	5		PM. SOP-B5014	PM. SOP-B5014	2	SAMPLING CHECK CHECK LIST 100% AUTO-VISION CHECK	4	40																																						
										TIN BURR	SHORT/HIGH IR	2. SINGULATION TOOLING WORN OUT	5		PM. SOP-B5014	PM. SOP-B5014	2	SAMPLING CHECK CHECK LIST 100% AUTO-VISION CHECK	4	40																																	
					KEY FORMING DIMENSION	CUSTOMER APPLICATION	1. FORMING DIE WORN OUT	7	DD						PM. SOP-B5014	PM. SOP-B5014	2	CHECK LIST (SPC) FOR KEY DIMENSION (SOP- 100% AUTO-VISION CHECK	4	56																																	
										2. FLASH/RESIN ON DEVICE LEAD	SOP-B5014	2	100% AUTO-VISION CHECK	4	56																																						
																									3. FLASH ON FORMING DIE	SOP-B5014	2	100% AUTO-VISION CHECK	4	56																							
																																					4. SUPPORTER STUCK	FIRST PIECE CHECK	2	100% AUTO-VISION CHECK	4	56											
INCOMPLETE FORMING	YIELD LOSS	MISLOCATION OF DEVICE TRANSFER MECHANISM	5		2	CHECK LIST SAMPLING CHECK 100% AUTO-VISION CHECK	2	CHECK LIST SAMPLING CHECK 100% AUTO-VISION CHECK	4	40																																											
					POOR L/F J-BEND FORMING	CUSTOMER ASSEMBLY ISSUE	1. FORMING DIE WORN OUT	5		PM. SOP-B5014 FIRST PIECE CHECK ,SOP-B5035	PM. SOP-B5014 FIRST PIECE CHECK ,SOP-B5035	2	CHECK LIST (SOP) FOR KEY DIMENSION 100% AUTO-VISION CHECK	4	40																																						
MIX TYPE	FAILURE	2. MISLOCATION OF DEVICE TRANSFER MECHANISM OPERATOR HANDLING PROBLEM OF OUTLINE DIMENSION CHECK SAMPLES	8							2	CHECK LIST (SOP) FOR KEY DIMENSION 100% AUTO-VISION CHECK	4	64																																								
					2	RECORD - 100% TESTING	4	64																																													

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.):06/26/18
FMEA Rev.:106
E3.N # : 18-1245

Process Function (OU, PI, OP #)	Potential Failure Mode	Potential Effect(s) of Failure	S e r v i c e	C o n s e q u e n c e	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	Current process Controls Detection	D e t e c t i o n	R. P. N.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results								
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n					
535 TEST/MARK/ TEST/TAPE	BODY BROKEN / SCRATCH/CHIP	COSMETIC FAILURE	5		TEST STATION'S SPRING MALFUNCTION		2	100% AUTO-VISION CHECK 100% VISUAL INSPECTION	4	40											
					JAMMING AT ROTATION STATION		2	SCRAP JAMMED DEVICE	3	30											
					JAMMING AT LASER DISK JAMMING AT TAPPING STATION		3	SCRAP JAMMED DEVICE	3	45											
					JAMMING AT TAPPING STATION		3	SCRAP JAMMED DEVICE	3	45											
BODY BROKEN CAUSE DIE CRACK	SHORT / HIGH IR		8		TEST STATION'S SPRING MALFUNCTION		2	100% VISUAL INSPECTION	5	80											
					JAMMING AT ROTATION STATION		2	SCRAP JAMMED DEVICE	3	48											
					JAMMING AT LASER DISK JAMMING AT TAPPING STATION		3	SCRAP JAMMED DEVICE	3	72											
					JAMMING AT TAPPING STATION		3	SCRAP JAMMED DEVICE	3	72											
OVER KILL	YIELD LOSS		2		1. WRONG TEST PROGRAM 2. WRONG TESTER ACCURACY	AUTO-LOADING PROGRAM BY SCAN ID LABEL SOP-B5015	1	DOUBLE CONFIRM BY OP	5	0											
WRONG BINNING	RELIABILITY		8		MACHINE OPERATION ABNORMAL	BINNING ACCURACY CHECK	2	CHECK LIST	5	80											
NO MARKING	RELIABILITY		8		1. LASER SYSTEM MALFUNCTION	FIRST PIECE CHECK	2	AUTO VISION DETECT *200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	3	48											
					2. LASER SYSTEM TURN OFF	FIRST PIECE CHECK	2	AUTO VISION DETECT *200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	3	24											
					POWER INTERRUPTION	TMTT AUTO-CLEANING	2	AUTO SENSOR DETECT	3	24											
ILLEGIBLE MARKING	RELIABILITY		4		1.LASER SYSTEM MALFUNCTION	FIRST PIECE CHECK	2	AUTO VISION DETECT *200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	3	24											
					LASER POSTION MISMATCH WITH MOTOR RUNNING.DUE TO EXTERNAL ELECTROMAGNETISM SIGNAL INTERFERE	FIRST PIECE CHECK	2	AUTO VISION DETECT *200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	3	24											
REVERSE POLARITY	RELIABILITY		8		1. REVERSE MASK	FIRST PIECE CHECK	2	AUTO VISION DETECT *200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	3	48											
					2. REVERSE POLARITY SETTING	FIRST PIECE CHECK	2	AUTO VISION DETECT *200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	3	48											
REVERSE SIDE MARKING	OUTLINE FAILURE		5		WRONG SIDE FORMING	FIRST PIECE CHECK	2	AUTO VISION DETECT *200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	3	30											
DEVICE TURN OVER 90 DEGREE	JAMMING AT CUSTOMER MACHINE		5		TAPING STATION UNSMOOTH		3	SENSOR DETECT	3	45											
CONTINUED EMPTY OR EMPTY QTY OUT OF GS-4775 SPEC	QTY SHORTAGE MACHINE		5		TAPING STATION UNSMOOTH		3	STCK RISK LABEL ON THE REEL FOR FV SPECIAL CHECK AFTER TAPING STATION REPAIR	5	75											
CARRIER TAPE DAMAGE	JAMMING AT CUSTOMER MACHINE		6		1. INCOMING MATERIAL QUALITY 2. JAMMING AT TMTT		2	1QA SAMPLING	5	60											
WRONG VOLUME	HANDLING FAILURE		6		SETTING ERROR		2	100% VISUAL INSPECTION CHECK LIST	5	60											
REVERSE TAPPING	CUSTOMER APPLICATION FAILURE		8	DD	ROTATION MALFUNCTION		2	100% VISUAL INSPECTION	5	80											
					DEVICES JAMMING AT TAPING STATION, OPERATOR MAKEUP DEVICES WITH ERROR DIRECTION	PROHIBIT MAKE UP DEVICES AT THE TAPING STATION	2	100% VISUAL INSPECTION	5	80											
REVERSE REELING	CUSTOMER APPLICATION FAILURE		7	DD	OPERATOR LOAD REEL AT REVERSE DIRECTOIN	1.CHECK REEL DIRECTION BEFORE LOADING REEL AT TMTT STATION 2.ADD ID LABEL PANE ON THE PAPER REEL FOR OPERATOR IDENTIFY DIRECTION 3.100% CHECK BY FV	2	100% VISUAL INSPECTION	5	70											
SPLIT TAPE	TOO HIGH PEELING FORCE		5	DD	1. INCOMING MATERIAL QUALITY		2	PEELING FORCE CHECK & SPC CONTROL 1.TPOH PER 4 HRS/SILNER/BSM SHRS ISM-3C&ISM-2B GULL WING TAPE. EVERY 2 HOURS)	5	50											
					2. TOO HIGH SEALING TEMP.	FIRST PIECE CHECK; SPC CONTROL	2	PEELING FORCE CHECK & SPC CONTROL 1.TPOH PER 4 HRS/SILNER/BSM SHRS ISM-3C&ISM-2B GULL WING TAPE. EVERY 2 HOURS)	5	50											

Process: SMX
Product: Matrix SMA&B&C

FMEA Number:FMEA-055-Matrix (T)
Customer Part Number:
Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Dennis Wang;

Date (Orig.): 10/15/91
Date (Rev.):06/26/18
FMEA Rev.:106
Ed.N # : 18-/245

Process Function (OI, PI, OP-#)	Potential Failure Mode	Potential Effect(s) of Failure	S e v e r i t y	C o n t r o l	Potential Cause(s)/ Mechanism(s) of Failure	Current process Controls Prevention	O c c u r r e n c e	Current process Controls Detection	D e t e c t i o n	R. P. o n.	Recommended Action(s)	Responsibility & Target Completion Date	Action Results					
													Actions Taken	S e v e r i t y	O c c u r r e n c e	D e t e c t i o n		
					3.SEALING SHOES WITH GLUE RESIDUE,SEALING TRACK TOUCH COVER TAPE EDGE	CHECK SEALING SHOES ONCE PER 2.5HRS	2	CHECK COVER TAPE SURFACE AND SEALING TRACK PROHIBITED TOUCH EDGE OF COVER TAPE PER 2HRS		5	50							
	LOOSEN TAPE	TOO LOW PEELING FORCE	5	DD	1. INCOMING MATERIAL QUALITY 2. DIRTY ON THE SEALING SHOES 3. TOO LOW SEALING TEMP. 4.BALANCE SUPPORTOR BLOCKED DUE TO CONTAMINATION	FIRST PIECE CHECK; SPC CONTROL CHECK SEALING SHOES ONCE PER 2.5HRS FIRST PIECE CHECK; SPC CONTROL CHECK SEALING BALANCE SUPPORTOR PER ROUTINE PM BY EE	2 2 2 2	PEELING FORCE CHECK & SPC CONTROL (TP/JH PER 6 HRS,SILLNER&ISM 3HRS ISM-3&ISM-2B GULL WING TAPE .EVERY 2HOURS)		5 5 5 5	50 50 50 50							
	COVER TAPE MISALIGNMENT	COSMETIC FAILURE	5		COVER TAPE SHIFT DURING LOADING	CONTROL COVER TAPE REELING AND LEADING GUIDE2	2	START CHECK AND POSTION CHECK SMD-TMITT-03_04		5	50							
	BR/VF/VZ/O/S/V/C/ZZ FAIL	CUSTOMER APPLICATION FAILURE	8	DD	1. WRONG TESTING PROGRAM 2. *TESTER ACCURACY 3. *BINNING ACCURACY 4. WRONG OPERATION HANDLING 5.WRONG TEST MODE,TEST MODE BE CHANGED DURING OFFLINE STATUS BY MISTAKE 6.AFTER MARKING TESTSER BE TURN OFF	1. AUTO-LOADING PROGRAM BY SCAN ID LABEL 2.DOUBLE CHECK AT BINNING. TESTER ACCURACY CHECK. BINNING ACCURACY CHECK; SOP-B5024; TEST MODE BE DISABLED WHATEVER ONLINE OR OFFLINE STATUS SOFTWARE UPDATED, THE LAST TESTER ALWAYS TURN ON BY COMPULSIVE	2 2 2 2 2 1	CHECK LIST: 100% ELEC. TESTING AT LEAST SYLASBL CONTROL CHECK LIST: 100% ELEC. TESTING AT LEAST SYLASBL CONTROL CHECK LIST: 100% ELEC. TESTING CHECK LIST 100% ELEC. TESTING NA 100% ELEC. TESTING SOFTWARE UPDATED FEB-2007 FINISHED 100% ELEC. TESTING		2 2 2 2 2 2	32 32 32 32 32 16							
	MIX TYPE	CUSTOMER APPLICATION FAILURE	8	DD	1. OPERATOR HANDLING PROBLEM 2. DEVICE MIXED BEFORE TMITT 3.TTK TESTER OPEN 2PROGRAM INTERFACE,OP SELECT ERROR PROGRAM DOWN LOAD WRONG PROGRAM PROVIOUS LOT MIXED TO NEXT LOT , WITHOUT TAPE CUTTING UPLOAD PROGRAM TIME DELAY	SOP-B5027 TMITT SOFTWARE UPDATED, ONLY IPROGRAM INTERFACE AVAILBLE BY SOFTWARE CONTROL AUTO-LOADING TEST PROGRAM BY SCAN ID LABEL ONLY	2 3 1 1	100% ELECTRICAL TEST, FOLLOW PAT RULE TO SET TESTING PROGRAM 100% ELECTRICAL TEST 100% ELECTRICAL TEST 100% ELECTRICAL TEST		2 2 2 2	32 48 16 16							
	550 FINAL INSP.	P/N NO MATCH IN BETWEEN REELS AND OUTSIDE LABEL	8	DD	HANDLING ISSUE		2	100% DOUBLE CHECK		5	80							
	REVERSE DEVICE IN THE TAPE	CUSTOMER APPLICATION FAILURE	8	DD	HANDLING ISSUE		2	100% INSPECTION		5	80							
	REVERSE REELING	CUSTOMER APPLICATION FAILURE	8	DD	HANDLING ISSUE	FIX DUMMY REEL	2	100% INSPECTION		5	80							
	DOUBLE LAYER COVER TAPE	INITIAL COVER TAPE TEAGING, STICK ON CARRIER TAPE	7	DD	RETAPING FAIL TO STRIP INITIAL COVER TAPE		2	FOLLOW UP TP/JH SAMPLE SIZE		5	70							
	COVER TAPE CARBONIZED	COVER TAPE TEARING	7	DD	RESEALING TEMP. OVER SPEC	FIX THERMAL COUPLEPM CHECK MONTHLY	2	100% INSPECTION		5	70							
	MIX TYPE	CUSTOMER APPLICATION FAILURE	8	DD	HANDLING ISSUE	SOP-B5027	2	100% INSPECTION		5	80							
	WRONG LABEL	CUSTOMER APPLICATION FAILURE	8	DD	HANDLING ISSUE		2	100% DOUBLE CHECK		5	80							

Note:
1. In general, if RPN number is over 100, need to take corrective action; also to reduce ranking, should follow the order of: Severity, occurrence and detection.
2. The Rev.before 31 is from Matrix structure.
3.Remark: Machine power off by accident, at the beginning of machine recovery to mass production, keep the same control method, double confirmation for one more time.
4. % Means alternative solution
5. * Means error proofing in prevention



DIODES PPAP

PRODUCTION PART APPROVAL PROCESS

7. Control Plan



Control Plan Number:CP-055-Folded(T)		Prototype		e-launch		Production		Key Contact / Phone:		Date (Orig.):10/15/91		Date (Rev.):01/24/19		Rev. No.: 133							
Part Number/Latest Change Level:								Core Team: Tracy Mu,Susan Zhao,Sapphire Liu,Dennis wang,Evan Pei,Mike Liu, Austin wang,Rock Jiao,Joy wang,Larry Lv,Costa Yu,Ken Zhang,Arken Pang,Wanfu Tian,Dennis Liu, Louis Liu, Ehgar Feng,Karen Wang,Owen Liu,Kevin Yang				Customer Engineering Approval / Date (If Req'd):									
Part Name:SMA&B&C								Process:		Supplier Code:		Special Characteristic Symbols: "DD" for not relating safety or legal ; "DT" for safety or legal consideration		Customer Quality Approval / Date (If Req'd):							
Supplier/Plant:								ECN approval number:18-7472													
Process Number	Process Name / Operation Description	Machine, Device, Jig, Tools For Mfg.	Responsibility	Characteristics			Special Char. Class	Methods				Reaction Plan									
				Product	Process			Product/Process Specification / Tolerance	Evaluation Measurement Technique	Size	Sample		Control Method								
049	AUTO FOLDING SOLDERING	FOLDED AUTO SOLDERING	P	1.) VISUAL INSPECTION			TSOP-B5005 TSOP-B5011 TSOP-B5019 TSOP-B5034	VISUAL INSPECTION	ONE L/F	1,2,3,4-BEGINNING OF 1,2,4-AFTER REPAIR, CLEAN AND CHANGE PIN BOX 3.CHANGE DICE LOADER	CHECK LIST	IF ABNORMAL IS OBSERVED NOTIFY EE TO REPAIR									
				1-1 SOLDER PASTE ON THE BOTTOM PAD																	
				1-2 FLUX(SOLDER PASTE) ON TOP FINGER																	
				1-3 DICE POSITION ON THE BOTTOM PAD																	
				1-4 SOLDER PASTE ON THE SMALL HOLE(FSMB&FSMC)																	
				1-5 CONFIRM WHETHER HAVE BUBBLE OR FOREIGN SUBSTANCE AFTER OPEN THE TANK.																	
				2.) CHECK SPRING OF PIN, IF FUNCTION WELL											TSOP-B5005 TSOP-B5006 TSOP-B5034	VISUAL INSPECTION TOUCH&JIG	100% INSPECTION 3 SETS	AFTER OPEN THE FLUX TANK AT THE BEGINNING AND ENDING OF EACH SHIFT	CHECK LIST & RECORD # OF REPLACEMENT	CHECK LIST	IF ONE PIN IS NOT FUNCTION WELL REQUEST EE FOR REPLACEMENT
				3.) CHECK VIBRATION IF FUNCTION											TSOP-B5005 TSOP-B5034	LISTEN	ONCE	AT THE BEGINNING OF EACH SHIFT	CHECK LIST	IF ABNORMAL IS OBSERVED NOTIFY EE TO REPAIR	
				4.) PIN BOX CLEANING & INSPECTION											TSOP-B5005; TSOP-B5016; TSOP-B5049; TSOP-B5034	JIG & VISUAL INSPECTION	3 SETS	EVERY SHIFT & CHANGE PIN BOX	CHECK LIST	IF THE PIN SURFACE IS STILL RESIDUAL WITH SOLDER OR FLUX, CLEAN AGAIN; ANY PIN DEFORM ASK EE REPLACEMENT. NOTIFY PE ANDEE TO DO ACTION	
				4-1 FOLDING PLATE CLEANING/ HEATING BLOCK AND WEIGHT CLEANING												VISUAL INSPECTION	ONCE	2 HOURS	CHECK LIST		
				4-2 TRANSFER TRACK PLATE CLEANING												VISUAL INSPECTION	ONCE	4 HOURS	CHECK LIST		
5.) PULL TEST			TSOP-B5005 SOP-B5021 TSOP-B5034	STANDARD WEIGHT	10EA	PER DIE LOT SHIFT START PIN BOX CHANGE	CHECK LIST	IF ONE FAILURE IS OBSERVED NOTIFY PE ANDEE TO DO ACTION													
6.) SHEAR TEST			TSOP-B5005 SOP-B5021	SHEAR TESTER	20EA	24 HOURS	XBAR-S CHART RECORD FAIL POINT FOR OUT OF SPEC	IF ONE FAILURE IS OBSERVED NOTIFY PE AND EE TO DO ACTION													
7.) MEASURE PRE-HEAT & REFLOW TEMP.			TSOP-B5005 TSOP-B5034	THERMAL COUPLE	ONCE	SHIFT START	CHECK LIST	IF ACTUAL TEMP OUT OF SPEC. SHUT DOWN THE M/C & INFORM F/M OR PE AND EE TO DO ACTION													
8.) MEASURE REFLOW PROFILE			AS PER SOP-0035(PE)	THERMAL COUPLE & RECORDER	ONCE	PER 2 WEEKS	PROFILE RECORD	WHEN ACTUAL TEMP. OUT OF SPEC RANGE, SHUT DOWN THE MACHINE SHUT DOWN THE M/C & INFORM F/M OR ENGR TO DO ACTION													
9.) SUBASSEMBLY INSPECTION			TSOP-B5005 OP-049 SOP-B5026	MAGNIFIER	1 PCS L/F	ONCE PER EVERY 20 PCS L/F ONE PIECE CHECK AT SHIFT START/ENDING SHIFT, MACHINE STOP and restart	CHECK LIST &	1. FOR ANY NON-WETTING&DICE TOUCH FINGER DOWN SET, OVER FOLDING, DICE ON HOOK, SOLDER BALL AND SOLDER OVERHANG BE FOUND, THE MACHINE SHOULD BE STOP AND INFORM EE,PE AND F/M; 2. OTHER DEFECTS BE FOUND 2 EA OR MORE THAN 2EA, MACHINE SHOULD BE STOP AND INFORM EE,PE AND F/M,THE FINDING DEFECT SHOULD BE CUT OFF AND SCRAP IF <2EA; 3. INVOLVED DEVICE SHOULD BE QUARANTINED AND EER													
9-1. NONE WETTING & SOLDER JOINT OPEN																					
9-2. NECKING																					
9-3. MISSING DICE																					
9-4. DICE MISALIGNMENT																					
9-5. DICE TOUCHING TO THE DOWN SET OF TOP FINGER																					
9-6. SOLDER ON THE TOP FINGER																					
9-7. TOP FINGER TILT																					
9-8. TOP FINGER OVER FOLDING																					
9-9. UN-COMLETE FOLDED																					
9-10. NO SOLDER ON THE HOLE (ONLY FOR FSMB&FSMC)																					
9-11. DICE REVERSE																					
9-12. DICE ON HOOK (ONLY FOR HOOK L/F)																					
9-13. SOLDER BALL & SOLDER BRIDGE&SOLDER OVERHANG																					
9-14. DICE CRACK																					
9-15. DOUBLE DICE																					
9-16. TOP PAD TOUCH PASSIVATION OF DICE																					
9-17. LEAD FRAME DAMAGE OR DEFORM																					
9-15. DICE POSITION			TSOP-B5005 TOP-049 TSOP-B5019	MICROSCOPE	1 ODD COLUMN AND 1 EVEN COLUMN EACH	AFTER SOLDERING,SHIFT BEGIN,CHANGE FRAME GUIDER AND CHANGE OR ADJUST DICE LOADER	CHECK LIST	IF OUT OF SPEC INFORM EE,FOREMAN & PE TO DO ACTION													
9-16. TOP FINGER BROKEN			TSOP-B5005 TSOP-B5034	MICROSCOPE (7.5X MIN.)	1 PCS L/F	SHIFT START AND AFTER REPAIR FOLDING	CHECK LIST	IF ONE FAILURE HAS BEEN FOUND NOTIFY EE, F/M OR PE													
10.) SOLDERING HEIGHT			SOP-B5022 SOP-B5011	HEIGHT MEASURE METER	1 ODD COLUMN AND 1 EVEN COLUMN	SHIFT START AND PER 4 HOURS	X BAR-S CHART	IF ONE FAILURE IS OBSERVED NOTIFY M.F., PE OR EE TO DO ACTION													
11.) SOLDER WEIGHT			TSOP-B5005	BALANCE	3 PCS L/F	SHIFT START & CHANGE PIN BOX	CHECK LIST	IF OUT OF SPEC INFORM EE,FOREMAN & PE TO DO ACTION													



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Part Name:SMA&B&C			Special Characteristic Symbols: "DD" for not relating safety or legal ; "DT" for safety or legal consideration									Customer Quality Approval / Date (If Req'd):					
Supplier/Plant:			ECN approval number:18-7472														
Process Number	Process Name / Operation Description	Machine, Device, Jig, Tools For Mfg.	Responsibility	Characteristics				Special Char. Class	Methods				Reaction Plan				
				Product	Process	Product/Process Specification / Tolerance	Evaluation Measurement Technique		Size	Sample Freq.	Control Method						
						12- OTHER START UP CHECK ITEMS 12-1 CHECK WHETHER SOLDER PIN ACCORD WITH DIE SIZE 12-2 CHECK WHETHER FLUX PIN DIAMETER ACCORD WITH DIE SIZE 12-3 CHECK SOLDER TRAY AND FLUX TRAY RIGHT OR NOT 12-4 CHECK WHETHER LEADFRAME P/N ACCORD WITH DIE SIZA 12-5 CHECK WHETHER SOLDER AND FLUX SAFE LIFE 12-6 CHECK NOZZLE WORN OUT		TSOP-B5034; TSOP-B5046; TSOP-B5005	VISUAL INSPECTION	ONCE	SHIFT START	CHECK LIST	STOP PRODUCTION UNTILL PROBLEM SOLVED.				
515	POST CLEANING	DEGREASER	P		M/C CONDITION CHECK		AS PER SMD-FLUX RESIDUAL-02_TOP-515 AS PER SMD-FLUX RESIDUAL-01_TOP-515	VISUAL CHECK MAGNIFIER	- 10 STRIPS	PER CLEANING SHIFT START AND PER 2HRS AND CHANGE SOLUTION	CHECK LIST CHECK LIST	FIND FAILURE , INFORM PE AND EE 1. FIND FAILURE , INFORM PE AND EE 2. RECLEAN					
205	TRADITIONAL MOLDING	TRADITIONAL MOLD DERUNNER PRE-HEATER	P		MOLD MACHINE CHECK -MOLD TEMPERATURE -TRANSFER PRESSURE -MOLD CLAMPING PRESSURE -EME SPIRAL FLOW -EME PREHEATED TIME -LEAD FRAME PREHEAT TEMP -MOLD CHASE CHECK -MOLD CLEAN CHECK -DE-RUNNER MACHINE CHECK		As perOP-205 GEN-MOLDING-01 GEN-MOLDING-02 GEN-MOLDING-03 GEN-MOLDING-05 GEN-MOLDING-06	THERMAL METER VISUAL CHECK	ONCE	BEGINNING AT PER SHIFT	CHECK LIST	OUT SPEC. INFORM F/M OR PE AND EE TO ACTION					
					MECH. INSP. -INCOMPLETE FILL -VOID -BURR-FLASH -MOLD MISMATCH -PINCH ON LEAD FRAME -SURFACE CONTAMINATED OIL -SCRATCH ON SURFACE -BODY CRACK		AS PER GEN-MOLDING-27 SOP-B5026	MAGNIFIER	ONE SHOT (8 PCS TRADITIONAL MOLD)	CAREFULLY CHECK AT START AND END EVERY SHIFT	C-Chart	1. STOP OPERATION 2. INFORM FORMAN OR PE AND EE					
					MEASURE PRE-HEATED MOLDING COMPOUND TEMPERATURE		GEN-MOLDING-35	INFRARED THERMOMETER	ONCE	EVERY SHIFT BEGINNING PER NEW COMPOUND LOT	CHECK LIST	1. ADJUST PRE-HEAT TIME WITHIN SPEC 2. STOP OPERATION AND INFORM PE OR EE WHEN COMPOUND TEMPERATURE STILL OUT OF SPEC.					
206	AUTO MOLDING	AOTU MOLD	P		MOLD MACHINE CHECK -MOLD TEMPERATURE -TRANSFER PRESSURE -MOLD CLAMPING PRESSURE -EME SPIRAL FLOW -EME PREHEATED TIME -MOLD CHASE CHECK -MOLD CLEAN CHECK		9P-206 GEN-MOLDING-28 GEN-MOLDING-29 GEN-MOLDING-06B GEN-MOLDING-30	THERMAL METER VISUAL CHECK	ONCE	BEGINNING AT PER SHIFT	CHECK LIST	INFORM F/M OR PE AND EE					
					MECH. INSP. -INCOMPLETE FILL -VOID -BURR-FLASH -MOLD MISMATCH -PINCH ON LEAD FRAME -SURFACE CONTAMINATED OIL -SCRATCH ON SURFACE -BODY CRACK		GEN-MOLDING-27 SOP-B5026	MAGNIFIER	2 PIECES A MOLD	CAREFULLY CHECK AT START AND END EVERY SHIFT	C-Chart	1. STOP OPERATION 2. INFORM PE OR EE					
220	TRIMMING & FORMING FOR BARREL PLATING	TRIMFORM	P		-KEY OUTLINE DIMENSION (C,D and E are DD items, SPC control) -OUTLINE DIMENSION	DD	SMD-T/F-02 SOP-B5035 TSOP-B5055	SHADOWGRAPH 3D MEASUREMENT SYS	1 SHOT EACH TRACK	BEGINNING & EVERY SHIFT & AFTER DIE REPAIRED	X-BAR S	1. NOTIFY EE. TO ADJUST M.C. 2. NOTIFY F/M & PE OR EE.					
					MECH. DEFECTS INSP. -BODY BROKEN -BODY BURR -BODY CHIP -FLASH -LEAD TWIST -PINCH ON LEAD -REVERSE FORMING -LEAD BURR -POOR J-BEND FORMING		SMD-T/F-01 TSOP-B5026	MAGNIFIER	5 SHOTS EACH TRACK M/C RESTART: 5KEA PUNCH/DIE REPLACE: 2KEA	BEGINNING & EVERY LOT OR AFTER DIE REPAIRED M/C RESTART PUNCH/DIE REPLACE CHANGE LEADER BUSHING	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. 100% SORTING 3. EER BODY BROKEN AND REVERSE FROMING NOTIFY PE AND EE. 4. OTHER DEFECT EER ALARM GATE AS SOP-B5017					
					MECH. DEFECTS INSP. -BODY BROKEN -BODY BURR -BODY CHIP -PINCH ON LEAD -LEAD DAM-BAR RESIDUE -FLASH ON LEAD -LEAD BURR		SMD-T/F-07 TSOP-B5026	X45 MICROSCOPE	ONE SHOT	BEGINNING & AFTER DIE REPAIRED	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. NOTIFY F/M & PE OR EE.					
221	TRIMMING FOR STRIP PLATING	TRIMMING	P		MECH. DEFECTS INSP. -BODY BROKEN -BODY BURR -BODY CHIP -PINCH ON LEAD -LEAD DAM-BAR RESIDUE -FLASH ON LEAD -LEAD BURR		SMD-T/F-08 TSOP-B5026	MAGNIFIER	BEGINNING & EVERY HOUR: M/C RESTART: 2PCS PUNCH/DIE REPLACE: 2PCS	BEGINNING & EVERY HOUR OR AFTER DIE REPAIRED M/C RESTART PUNCH/DIE REPLACE	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. 100% SORTING 3. EER BODY BROKEN NOTIFY PE AND EE. 4. OTHER DEFECT EER ALARM GATE					



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				Product	Process	Special Char. Class	Product/Process Specification / Tolerance	Evaluation Measurement Technique	Size	Sample Freq.										
215	POST MOLDING CURE	OVEN	P	OVEN SETTING TEMP./TIME			175°C, 4 HOURS	VISUAL CHECK CURE.01.02.03			ONCE PER SHIFT	CHECK LIST	INFORM FM OR PE AND EE							
340	STRIP PLATING	MECO AUTO STRIP PLATING	P	CHEMICAL AND HOT DI WATER TANK TEMP			TOP-340 TSOP-B5005(PL07)-01	CHECK M/C DISPLAY			ONCE PER 3 HOURS	CHECK LIST	IF ABNORMAL, STOP THE MACHINE AND NOTIFY EE/PE							
				FRESH WATER RINSE FLOW			TOP-340 TSOP-B5005(PL07)-01	CHECK FLOWMETER READING			ONCE PER 3 HOURS									
				CHEMICAL AND WATER RINSE TANK LIQUID			TOP-340 TSOP-B5005(PL07)-01	VISUAL INSPECTION			ONCE PER 3 HOURS									
				MACHINE JAMMING			MACHINE DISPLAY TSOP-B5005 (PL07)-06	CHECK MACHINE DISPLAY	ALL DEVICES LOT ID WHEN IN MACHINE	MACHINE STATUS IN "STANDBY"					IF ABNORMAL,MACHINE STATUS IN "STANDBY" ISSUE EER					
				CHEMICAL ADDING			TOP-340 TSOP-B5005(PL07)-02	RECORD			EVERY TIMES				IF ABNORMAL,STOP THE MACHINE AND NOTIFY EE/PE					
				CHEMICAL TANK CURRENT			MACHINE DISPLAY TSOP-B5005(PL07)-07	CHECK M/C DISPLAY			PER PROGRAM CHANGE PER SHIFT									
				— FLASH OR RESIN ON LEAD							VISUAL INSPECTION LIGHT	3 STRIPS	PER PROGRAM CHANGE PER SHIFT							
				— BODY SURFACE ROUGHNESS DIRTY/BROKEN																
				— LEAD FRAME DAMAGE/DEFORMING																
				LEAD CU EXPOSURE						REFER TO TOP-340&GS4775 TSOP-B5005(PL07)-04										
				LEAD DISCOLOR																
				WATER MARK																
				HLREL	REFLOW SIMULATION TEST					QA-SOP#3007	MICROSCOPE	10EA FROM SMX PRODUCT		ONCE PER DAY	REFLOW CHECK LIST	INFORM F.M AND PE, ISSUE EER				
				IPQC	SOLDERABILITY TEST					SOP#3007 (QC dept.)	SOLDER POT			11 EA	ONCE PER SHIFT	CHECK LIST	QUARANTINE RELATIVE DEVICES AND ISSUE EER.			
AGING TEST						TSOP-B5005 (PL07)-03&05	AGING TESTER			11 EA	ONCE PER WEEK									
PURE-TIN PLATING THICKNESS						320-1000 UN/CH	X-RAY			3 STRIPS/3 POINT/STRIP	PER PROGRAM CHANGE PER SHIFT	X bar-S CHART								
PB CONTENT IN PURE-TIN PLATING BATH						<5PPM	AA ANALYSIS				ONCE PER WEEK	Pb CONTENT CHECK LIST	IF ABNORMAL,NOTIFY EE/PE AND ISSUE EER.							
PB CONTENT IN PURE-TIN PLATING LAYER						<350PPM	AA ANALYSIS				ONCE PER WEEK	CHEMICAL ANALYSE REPORT								
PRE&POST TREATMENT CHEMICAL CONCENTRATION						PE SOP-0027	CHEMICAL ANALYSIS				EVERY WORKING DAY									
P	PLATING SOLUTION ANALYSIS					PE SOP-0027	CHEMICAL ANALYSIS				EVERY WORKING DAY									
	ANNEALING TEMPERATURE AND N2 CURRENT					150°C, 80L/MIN TSOP-B5005(PL07)-10	MACHINE DISPLAY				EVERY TWO HOURS PER DHIFT	CHECK LIST	QUARANTINE PROBLEM MATERIAL, ISSUE EER,INFORM PE AND EE ENGINEER FOR ACTION							
220	FORMING FOR STRIP PLATING	FORMMING	P	-KEY OUTLINE DIMENSION (C,D and E are DD items, SPC control) -OUTLINE DIMENSION			SMD-T-F-02 SOP-B5035 TSOP-B5055	SHADOWGRAPH 3D MEASUREMENT SYS		1 SHOT EACH TRACK	BEGINNING & EVERY SHIFT & AFTER DIE REPAIRED	X-BAR S	1. NOTIFY EE. TO ADJUST M.C. 2. NOTIFY F/M & PE OR EE.							
P	WETTING BALANCE TEST					235±1°C, (1.5S)	MACHINE DISPLAY			15EA	ONCE PER DAY, 3 LOTS SMA, SEALOT	PL07 WETTING BALANCE LIST								
	MECH. DEFECTS INSP. -BODY BROKEN -BODY BURR -BODY CHIP -FLASH -LEAD TWIST -PINCH ON LEAD -REVERSE FORMING -LEAD BURR -TIN BURR -POOR F.BEND FORMING					SMD-T-F-01 TSOP-B5026	MAGNIFIER			5 SHOTS EACH TRACK M/C RESTART: 3KEA PUNCH/DIE REPLACE: 2KEA	BEGINNING & EVERY LOT OR AFTER DIE REPAIRED M/C RESTART PUNCH/DIE REPLACE CHANGE LEADER BUSHING	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. 100% SORTING 3. EER BODY BROKEN AND REVERSE FROMING NOTIFY PE AND EE. 4. OTHER DEFECT EER ALARM GATE AS SOP-B5017							
	MECH. DEFECTS INSP. BODY CRACK					SMD-T-F-07 TSOP-B5026	X45 MICROSCOPE			ONE SHOT	BEGINNING & AFTER DIE REPAIRED	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. NOTIFY F/M & PE OR EE.							



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				Product	Process	Special Char. Class	Product/Process Specification / Tolerance	Evaluation Measurement Technique	Sample			
								Size	Freq.			
335	AUTO PURE IN PLATING	YIHONG	P	TANK# 5, 8, 12, 16, 20-25 PLATING TANK TEMP.		REFER TOP-335 TSOP-B5005(PL04)-01	CHECK M/C DISPLAY	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION	
			P	NO.8 ACTIVATION BATH STATUS		REFER TOP-335 TSOP-B5005(PL04)-01	VISUAL INSPECTION	ONCE	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION	
			P	LIQUID LEVEL HEIGHT		REFER TOP-335 TSOP-B5005(PL04)-02	CHECK M/C	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION	
			P	THE CURRENT OF TANK#20-25		SMA=160-180A SMB=160-180A SMC=90-110A TSOP-B5005(PL04)	CHECK M/C DISPLAY	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION	
			PE*	NO. 20-25 PLATING BATH INGREDIENT		MSA=160-240 ML/L So=2-15-30 G/L	CHEM. LAB ANALYSIS	20#, 24#	EVERY DAY	CHEMICAL ANALYSE REPORT	INFORM EE AND PE FOR ACTION	
				NO.5&16 TANK PH		PH=9	CHEM. LAB ANALYSIS	5#16#			INFORM EE AND PE FOR ACTION	
				NO.8 ACTIVATION BATH CONTROL		REPLACE WHEN PM	ROUTINE ADD	5#	EVERY SHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION	
			P	BARREL STATION		REFER TOP-335 TSOP-B5005(PL04)-04	VISUAL INSPECTION	-	EVERY BARREL EVERY SHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION	
				BARREL ROTATION STATION		MACHINE DISPLAY	AUTO ALARM		EVERY MACHINE PM	PM CHECK LIST	INFORM EE AND PE FOR ACTION	
			P	BARREL ROTATION STATION		REFER TOP-335 TSOP-B5005(PL04)-01	VISUAL INSPECTION	1-11#, 12-19#, 20-23#, 24-25#	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION	
			BARREL ROTATION SPEED		REFER TOP-335 TSOP-B5005(PL04)-05	VISUAL INSPECTION	20-23#, 24-25#	EVERY SHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION		
		P			TANK#5 = 9-15 TANK#8 = 24-30 TANK#12 = 3-11 TANK#16 = 40-50 TANK#19 = 35-39 TANK#20-25 = 115-135 TSOP-B5005(PL04)-01&02	CHECK FLOWMETER DISPLAY	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION		
		P			PLATING THICKNESS	DD	320 UNCH - 1000 UNCH	X-RAY	10EA	ONCE PER BARREL	X BAR S CHART	QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION
		PE*			PB CONTENT IN PLATING SOLUTION	DT	<5PPM	AA	-	ONCE PER WEEK	Pb & Cu CONTENT CHECK LIST	QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION
		PE*			PB CONTENT IN PLATING LAYER	DT	<350PPM	AA	SMA/SMB 50EA SMC30 EA	ONE LOT PER WEEK, ONLY ONE TYPE FOR SMA,B,C,I		QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION
		PE*			CU CONTENT IN PLATING SOLUTION		<50PPM	--	--	ONCE PER WEEK		QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION
		HI-REL			REFLOW SIMULATION TEST		QA-SOP#3007	MICROSCOPE	10EA FROM SMX PRODUCT	ONCE PER DAY		REFLOW CHECK LIST
		P			SOLDERABILITY	DD	QA-SOP#3007 TSOP-B5005(PL04)-06	QA-SOP#3007	33EA	ONCE PER SHIFT, 11EA/SMA, 11EA/SMB, 11EA/SMC	CHECK LIST	QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION
		IPQC			AGING TEST	DD	QA-SOP#3007 TSOP-B5005(PL04)-08	QA-SOP#3007	33EA	ONCE PER WEEK, 11EA/SMA, 11EA/SMB, 11EA/SMC	CHECK LIST	QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION
		PE*			WETTING BALANCE TEST		235±1°C, 1.5S SOAKAGE	MACHINE DISPLAY	15EA	ONCE PER DAY, 3 LOTS SMA, SEALOT	PL04 WETTING BALANCE LIST	QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION
PE*			WETTING BALANCE TEST AFTER ONE HOUR STEAM AGING		235±1°C, 2.5S SOAKAGE	MACHINE DISPLAY	15EA	ONCE PER DAY, 3 LOTS SMA, SEALOT	PL04 WETTING BALANCE LIST	QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION		
P			VISUAL INSPECTION		GS-4775 TSOP-B5005(PL04)-07	VISUAL INSPECTION	200EA	EVERY FLYING BAR PER SHIFT	CHECK LIST	IF FOUND ONE ABNORMAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION		
P			SPIN DRYING TEMPERATURE AND TIME SET-UP		TOP-335 TSOP-B5005(PL04)-09	VISUAL INSPECTION	--	ONCE PER SHIFT	CHECK LIST	IF FOUND ONE ABNORMAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION		
P			ANNEALING TEMPERATURE AND N2 CURRENT		150°C, 80L/MIN TSOP-B5005(PL04)-13	MACHINE DISPLAY	--	EVERY TWO HOURS PER DHIFT	CHECK LIST	QUARANTINE PROBLEM MATERIAL, ISSUE EER, INFORM PE AND EE ENGINEER FOR ACTION		



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535	TEST/MARK/TAPE	TM/TT	P	★TESTER ACCURACY	GOLDEN SAMPLE STANDARD RESISTOR SMD-TMTT-10,12 SMD-TMTT-20,21,24 SMD-TMTT-07 SMD-TMTT-26,27	STD SAMPLE CHECK	1 EA/EACH PARAMETER	1 ONE TEST PARAMETER ONLY-ONCE PER DAY 2. TEST MORE THAN TWICE PARAMETER PER WEEK	CHECK LIST	NOTIFY FM & PE AND EE																																																																	
											P	★BINNING ACCURACY	Standard Sample 1.SMD-TMTT-10,21,27 SMD-TMTT-07	CHECK BINNING ACCURACY	10EA/EACH AT LEAST 10EA PER PARAMETER	1 PER WEEK	CHECK LIST	IF ABNORMAL IS OBSERVED, NOTIFY FM OR EE TO DO ACTION PROGRAM WITH AUTO-LOADINGSYLS&SBL CONTROL,DEFINE ALARM GATE IN PROMIS SYSTEM																																																									
																			P	TEST PROGRAM AUTO-LOADING WITH SCANNING 1D LABEL,OP DOUBLE CHECK	SMD-PROD- 4A,4B,4C,4D,4E,4F,4G	VISUAL INSPECTION	ONCE	BY TYPE	CHECK LIST	CORRECT IMMEDIATELY AND RETEST.																																																	
																											P	R/VF /VZ(VBR) O/S TRR(FER),VC(TVS), VL(AVALANCHE)	DD	TSOP-B5015	100% TEST AT LEAST	LOADING SYLS&SBL CONTROL DEFINE ALARM GATE IN PROMIS SYSTEM	INFORM PE & FM AND EE																																										
																																		P	MARKING MECH. DEFECTS INSP: -ILLEGIBLE MARKING -NO MARKING -REV. TAPING -WRONG MARKING -DOUBLE MARKING -NO CATHODE BAND MARKING DEFORMING/SHIFT	1.SMD-TMTT-01,02 TSOP-B5026 SOP-B5048	VISUAL INSPECTION	22 EA	SHIFT START& AFTER TYPE CHANGER(RETAPING) & EVERY 4 HRS	CHECK LIST	INFORM EE, PE AND EE & FM FOR IMPROVEMENT																																		
																																										P	MARKING CONTENTS CHECK (WHEN CHANGE LOT, FOCUS ON START REEL PER TAPE TRACK.)			100EA	LOT CHANGE: 1. CONFIRM PREVIOUS LOT BE CLEAN 2. CHECK START 100EA MARKING SAME WITH WORK ORDER SHEET(RC65 SHEET)																												
																																																	P	MECHANICAL DEFECT: -BODY DEFECT -LEAD DEFECT -MARKING DEFECT	MECHANICAL INSPECTION CRITERIA GS-4775	1. 100% AUTO-VISION OR VISUAL INSPECTION FOR NON-AUTO-MOTIVE PRODUCT 2. 100% AUTO-VISION INSPECTION FOR AUTO-MOTIVE PRODUCT ±200% VISUAL INSPECTION IN CASE AUTO- VISION MALFUNCTION(ALTERNATIVE SOLUTION)	100%	PER LOT	CHECK LIST	INFORM FORMAN OR ENGINEER																			
																																																									P	TAPE DEVIATION	SMD-TMTT-03,04	VISUAL INSPECTION	20 CM	EVERY 2 HRS/CLEAN BALANCE/PM CHANGE COVER OR CARRIER TAPE	CHECK LIST	NOTIFY EE TO RE-SETTING											
																																																																	P	100% LABEL CHECK		VISUAL INSP.	100%	PER REEL	SIGN ON THE WORK ORDER SHEET (RC-65 SHEET)	1. REWORK 2. INFORM FM TO DO WITH 3. RECORD AND D.M.D.A			
																																																																									P	TAPE PEELING FORCE TRACK	20-80G
P	TEST	SMD-TMTT-05 SMD-TMTT-06 TSOP-B5023	STRENGTH																																																																								
								P	-COVER TAPE TEARING -REVERSE REELING -ILLEGIBLE MARKING -NO MARKING -POOR PLATING -LEAD TWIST -BODY CRACK -MISS DEVICE -REVERSE FORMING -MIX. TYPE -BODY DAMAGE -DOUBLE COVER TAPE				100%	PER REEL	CHECK LIST	INFORM FORMAN OR ENGINEER, ISSUE EER																																																											
																	P	SMD-FINAL-01 SMD-FINAL-02 SMD-FINAL-03 GS-3407-75-C&E TSOP-B5026 SMV-3012 SOP-B5018	VISUAL INSPECTION		100%(FOR 6S TMT PRODUCT) OR FIRST REEL CHECK; FOR NON-6S TMT PRODUCT)		PER REEL OR PER LOT	CHECK LIST	INFORM FORMAN OR ENGINEER, ISSUE EER																																																		
																										P	MANUAL SEALING MACHINE	TAPE PEELING FORCE TEST FOR MANUAL REEL MACHINE	SMD-TMTT-25	PEELING FORCE TESTER	30CM	EVERY SHIFT	CHECK LIST																																										
																																		P	SCAN MACHINE	LABEL		SCAN LABEL	100%	PER REEL	CHECK LIST																																		

PE: PE technician

AFTER MACHINE PM, CHECK MACHINE SETTING AND DEVICES AS ROUTINE START CHECK

REMARK: MACHINE POWER OFF BY ACCIDENT, AT THE BEGINNING OF MICHINE RECOVERY TO MASS PRODUCTION, KEEP THE SAME CONTROL METHOD, DOUBLE CONFIRMATION FOR ONE MORE TIME. REFER GSC4681

☞ MEANS ALTERNATIVE SOLUTION

★ MEANS ERROR PROOFING IN PREVENTION



C o n t r o l P l a n

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Control Plan Number:CP-055-Matrix(T)			Core Team: Roger Jin,Selina Yang ,David He,Tracy Mu,Susan Zhao,Sapphire Liu,Denis Wang;			Customer Engineering Approval / Date (If Req'd):		Customer Quality Approval / Date (If Req'd):		ECN:18-7245				
Part Number/Latest Change Level:			Special Characteristic Symbols: "DD" for not relating safety or legal ; "DT" for safety or legal consideration											
Part Name:SMA&B&C			Supplier Code:											
Part / process Number	Process Name / Operation Description	Machine Device, Jig, Tools For Mfg.	Characteristics				Special Char. Class	Product / Process Specification / Tolerance	Evaluation Measurement Technique	Methods		Reaction Plan		
			Note	Product	Process	Sample				Control Method				
								Size	Freq.					
045	AUTO SOLDERING M/C (MATRIX)	AUTO SOLDERING M/C (MATRIX)	P	VISUAL INSPECTION A)SOLDER PASTE OF BOTTOM PAD B) FLUX C)DICE POSITION OF BOTTOM PAD CONFIRM WHETHER HAVE BUBBLE OR FOREIGN SUBSTANCE AFTER OPEN THE TANK			AS PER SOP-B5011 , SOP-B5019 TSOP-B5005	VISUAL INSP.	192 (SMA) 160 (SMB)	START AND END CHECK EVERY SHIFT,AFTER REPAIR,CLEAN AND CHANGE PIN BOX	CHECK LIST	INFORM EE TO REPAIR		
							AS PER SOP-B5011 TSOP-B5005	VISUAL INSP.	100% INSPECTION	AFTER OPEN THE FLUX TANK	CHECK LIST	DETECT FLUX ABNORMAL, SUB ASSEMBLY MATERIAL ENTER IN EER SYSTEM,ABNORMAL FLUX ENTER IN DMDA.		
			P		PIN BOX (SOLDERING PIN WORN OUT, SOLDERING PIN BLOCK) HEATING BLOCK CLEANING			AS PER SOP-B5016 TSOP-B5005	VISUAL INSP.	192 (SMA) 160 (SMB)	START AND END CHECK EVERY SHIFT REPAIR , CLEANING AND REPLACE THE SOLDERING PIN SHIFT START AND PER 4 HOURS AND MACHINE SHUT DOWN OVER 1 HOUR	CHECK LIST	IF FINDING 1 FAILURE, REQUEST FOR REPAIR & INFORM F/M OR PE&EE, SOP-B5016 IF FINDING ANY FAILURE, INFORM F/M OR PE&EE	
							TSOP-B5005	VISUAL INSP.	-	SHIFT START AND PER 4 HOURS AND SHIFT END	CHECK LIST	IF FINDING ANY FAILURE, INFORM F/M OR PE&EE		
			P		PULL TEST			AS PER TSOP-B5005 SOP-B5021	STANDARD WEIGHT	10EA SOP-B5021	PER DIE LOT SHIFT START AND AFTER CHANGE PIN BOX	CHECK LIST	IF FINDING ANY FAILURE, INFORM F/M OR PE&EE	
			P		SHEAR TEST			AS PER TSOP-B5005 SOP-B5021	SHEAR TESTER	20EA	24 HOURS	XBAR-S CHART RECORD FAIL POINT FOR OUT OF SPEC	IF FINDING ANY FAILURE, INFORM F/M OR PE&EE	
			P			SOLDERING CONDITION: - TEMP. SETTING/ACTUAL - N2 FLOW RATE - HEATING/N2 COOLING TIME			AS PER TSOP-B5005	VISUAL INSPECTION	-	ONCE EVERY SHIFT	CHECK LIST	IF ACTUAL TEMP. OUT OF SPEC. SHUT DOWN & INFORM F/M OR PE&EE
			P			SOLDER WEIGHT CHECK			AS PERSOP-B5011 TSOP-B5005	BALANCE	3 PCS L/F	START CHECK AND CHANGE PIN BOX EVERY SHIFT	CHECK LIST	REPAIR REQUEST
			P			DICE LOADER INSPECTION			TSOP-B5005	MAGNIFIER	SMA 192EA SMB 160EA	LOADER CHANGE	CHECK LIST	IF ONE FAILURE HAS BEEN FOUND INFORM F/M ,PE AND EE TO DO ACTION
			P			SOLDERING HEIGHT			SOP-B5022 TSOP-B5005	HEIGHT MEASURE METER	1 ODD COLUMN AND 1 EVEN COLUME SM(B)A(24EA) SM(C)B(12EA)	SHIFT START AND PER 4 HOURS	X BAR-S CHART	IF ONE FAILURE IS OBSERVED NOTIFY E&AND PE
			P	MECHANICAL (INSP.) a) DIE UPSIDE DOWN b) DIE MISS c) SOLDER BRIDGE d) SOLDER BALL (OVER DIE THK) e) DIE SHIFT f) DIE OUT OF PAD g) DEWETTING h) TOP PAD TILT DEFORM j) DAMAGED FIXED HOLE OF LEAD FRAME INSP. k) LEAD FRAME WARPING INSP. l) SOLDER OVERHANG m) SOLDER JUNCTION OPEN n)LONG NECKING o)DIE TOUCH D/S p)DIE CRACK q)DOUBLE DICE r)TOP PAD TOUCH PASSIVATION OF DICE			OP-045	BY MAGNIFIER	1 PCS SMA = 192EA SMB = 160EA	ONCE PER 20 PCS SSTART and ENDING SHIFT	CHECK LIST	1. FOR ANY NON-WETTING&DICE TOUCH DOWN SET , SODER BALL BE FOUND, THE MACHINE SHOULD BE STOP AND IINFORM EE,PE AND F/M; 2. FINDING 2 OR MORE THAN 2 DEFECTS MACHINE SHOULD BE STOP AND NOTIFY F/M OR PE&EE 3. FOR 50MIL PRODUCTS, FINDING 1EA DICE SHIFT SHOULD BE STOP AND NOTIFY F/M OR PE&EE.		
515	POST CLEANING	DEGREASER	P		M/C CONDITION CHECK		AS PER SMD-FLUX RESIDUAL-02	VISUAL CHECK		EACH SHIFT	CHECK LIST	INFORM F/M OR PE&EE		
			P		MECH. INSP.		AS PER SMD-FLUX RESIDUAL-01	MAGNIFIER	10 STRIPS	SHIFT START AND PER 2HRS. CHANG SOLUTION	CHECK LIST	1. INFORM F/M OR PE&EE 2. RECLEAN		
205	TRANSFER MOLDING (TRADITION MOLD)	MOLD PRESS DERUNNER PRE-HEATER	P		MOLD MACHINE CHECK -MOLD TEMPERATURE -TRANSFER PRESSURE -TRANSFER SPEED -MOLD CLAMPING PRESSURE -EME SPIRAL FLOW -EME PREHEATER TEMP -LEADFRAME PREHEAT TEMP		OP-205 GEN-MOLDING-01 GEN-MOLDING-02 GEN-MOLDING-03 GEN-MOLDING-05 GEN-MOLDING-06	THERMAL METER VISUAL CHECKCK	ONCE	BEGINNING AT PER SHIFT	CHECK LIST	INFORM F/M OR PE&EE		



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Part Name:SMA&B&C			Special Characteristic Symbols: "DD" for not relating safety or legal ; "DT" for safety or legal consideration				BCN:18-7245						
Supplier/Plant:			Supplier Code:										
Part / process Number	Process Name / Operation Description	Machine Device, Jig, Tools For Mfg.	Characteristics				Special Char. Class	Product / Process Specification / Tolerance	Evaluation Measurement Technique	Methods		Control Method	Reaction Plan
			Note	Product	Process	Sample Size				Sample Freq.			
					-MOLD CHASE CHECK -MOLD CLEAN CHECK -DERUNNER MACHINE CHECK								
			P	MECH. INSP. -INCOMPLETE FILL -VOID -BURR/FLASH -MOLD MISMATCH -PINCH ON LEAD FRAME -SURFACE CONTAMIANATED/OIL -SCRATCH ON SURFACE	MECH. INSP.		GEN-MOLDING-27	MAGNIFIER	1 SHOT (8 PCS TRANDIONAL MOLD)	CAREFULLY CHECK ONE SHOT AT SHIFT START, END .	CHECK LIST & FAILURE RATE TREND CHART	1. STOP OPERATION 2. INFORM PE&EE	
					MEASURE PRE-HEATED MOLDING COMPOUND TEMPERATURE		GEN-MOLDING-035	INFRARED THERMOMETER	ONCE	EVERY SHIFT BEGINNING PER NEW COMPOUND LOT	CHECK LIST	1. ADJUST PRE-HEAT TIME WITH SPEC 2. STOP OPERATION AND INFORM PE&EE OR EE WHEN COMPOUND TEMPERATION STILL OUT OF SPEC.	
220	TRIMMING & FORMING	TRIM/FORM	P	KEY OUTLINE DIMENSION OUTLINE DIMENSION	OUTLINE DIMENSION CHECK	DD	SMD-T/F-02,04 SOP-B5035 TSOP-B5055	SHADOWGRAPH 3D MEASUREMENT SYS	1 SHOT EACH TRACK	BEGINNING & EVERY SHIFT & AFTER DIE REPAIRED	CHECK LIST X BAR-S CHART (FOR KEY DIMENSION)	1. NOTIFY EE TO ADJUST M.C. 2. NOTIFY F/M & PE&EE.	
			P	MECH. DEFECTS INSP. -BODY BROKEN -BODY BURR -BODY CHIP -FLASH -LEAD TWIST -PINCH ON LEAD -REVERSE FORMING -LEAD BURR -TIN BURR -POOR J-BEND FORMING			SMD-T/F-01 SOP-B5026	MAGNIFIER	5 SHOT EACH TRACK M/C RESTART 5KEA PUNCH/DIE REPLACE: 2KEA	BEGINNING & EVERY LOT OR AFTER DIE REPAIRED M/C RESTART PUNCH/DIE REPLACE	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. 100% SORT OUT. 3. NOTIFY F/M & PE&EE 4. SOP-B5014 5.EER BODY BROKEN AND REVERSE FORMING NOTIFY PE AND EE. 6.OTHER DEFECT EER ALARM GATE AS SOP-B5017	
			P	MECH. DEFECTS INSP. BODY CRACK			SMD-T/F-07 TSOP-B5026	X45 microscope	ONE SHOT	BEGINNING & AFTER DIE REPAIRED	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. NOTIFY F/M & PE OR EE.	
					TRIM FORM MACHINE INSP. -FLASH AT TRIM FORM -T/F DIE DAMAGE OR BROKEN		SMD-T/F-03 SMD-T/F-05			EVERY SHIFT	CHECKLIST	1. NOTIFY EE. TO ADJUST M.C. 2. 100% SORT OUT. 3. NOTIFY F/M OR PE&EE	
221	TRIMMING FOR STRIP PLATING		P	MECH. DEFECTS INSP. -BODY BROKEN -BODY BURR -BODY CHIP -PINCH ON LEAD -LEAD DAM-BAR RESIDUE -FLASH ON LEAD -LEAD BURR			SMD-T/F-08 TSOP-B5026	MAGNIFIER	BEGINNING & EVERY HOUR M/C RESTART: 2PCS PUNCH/DIE REPLACE: 2PCS	BEGINNING & EVERY HOUR OR AFTER DIE REPAIRED M/C RESTART PUNCH/DIE REPLACE	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. 100% SORTING 3. EER BODY BROKEN NOTIFY PE AND EE. 4. OTHER DEFECT EER ALARM GATE	
215	POST MOLD- ING CURE	OVEN	P		OVEN SETTING TEMP./TIME		175°C,4HOURS CURE.01.02.03	VISUAL CHECK	ONCE	EVERY SHIFT	CHECK LIST	INFORM F/M OR PE&EE	
			P	DEVICE VISUAL STATUS	CHEMICAL AND HOT DI WATER TANK TEMP FRESH WATER RINSE FLOW CHEMICAL AND WATER RINSE TANK LIQUID		TOP-340	CHECK M/C DISPLAY		ONCE PER 3 HOURS ONCE PER 3 HOURS ONCE PER 3 HOURS		IF ABNORMAL, STOP THE MACHINE AND NOTIFY EE/PE	
					MACHINE JAMMING		MACHINE	CHECK MACHINE DISPLAY	ALL DEVICES LOT ID WHEN IN MACHINE	MACHINE STATUS IN "STANDBY"		IF ABNORMAL, MACHINE STATUS IN "STANDBY" ISSUE EER	
					CHEMICAL ADDING		TOP-340	RECORD		EVERY TIMES		IF ABNORMAL, STOP THE MACHINE AND NOTIFY EE/PE	
					CHEMICAL TANK CURRENT		MACHINE DISPLAY	CHECK M/C DISPLAY		PER PROGRAM CHANGE			
					— FLASH OR RESIN ON LEAD — BODY SURFACE ROUGHNESS/DIRTY/BROKEN — LEAD FRAME DAMAGE LEAD CU EXPOSURE		REFER TO TOP- 340&GS4775	VISUAL INSPECTION	3 STRIPS(3 POINT/ STRIP)	PER PROGRAM CHANGE			
					LEAD DISCOLOR WATER MARK			VISUAL INSPECTION	3 STRIPS	PER PROGRAM CHANGE		IF ABNORMAL, ISSUE EER, QUARANTINE THE LOTS,STOP MACHINE AND NOTIFY EE/PE INFORM F/M AND PE. ISSUE EER	
			HI-REL	REFLOW SIMULATION TEST			QA-SOP#3007	MICROSCOPE	10EA FROM SMX PRODUCT	ONCE PER DAY			
				SOLDERABILITY TEST		DD	QA-SOP#3007	SOLDER POT	11 EA	ONCE PER SHIFT			
			IPOC	AGING TEST		DD	QA-SOP#3007	AGING TESTER	11 EA	ONCE PER WEEK			
				PURE-TIN PLATING THICKNESS		DD	320-1000 UNCH	X-RAY	3 STRIPS(3 POINT/ STRIP)	PER PROGRAM CHANGE			
340	STRIP PLATING	AUTO STRIP PLATING	PE		PB CONTENT IN PURE-TIN PLATING BATH	DT	<5PPM	AA ANALYSIS		ONCE PER WEEK		QUARANTINE RELATIVE DEVICES,AND ISSUE EER.	

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Part Name:SMA&B&C			Process:			Supplier Code:			BCN:18-7245								
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			Note	Product	Process	Process				Size	Freq.						
				PB CONTENT IN PURE-TIN PLATING LAYER		DT	<350PPM	AA ANALYSIS		ONCE PER WEEK	ANALYSE REPORT	IF ABNORMAL, NOTIFY EE/PE AND ISSUE EER.					
				WETTING BALANCE TEST			235°C, 1.5S	MACHINE DISPLAY	15EA	ONCE PER DAY, 3 LOTS SMA, 5EA/LOT							
				PRE&POST TREATMENT CHEMICAL CONCENTRATION			PE SOP-0027	CHEMICAL ANALYSIS		EVERY WORKING DAY							
				PLATING SOLUTION ANALYSIS ANNEALING TEMPERATURE AND N2 CURRENT			PE SOP-0027	CHEMICAL ANALYSIS		EVERY WORKING DAY							
			P				150°C, 80L/MIN	MACHINE DISPLAY		EVERY TWO HOURS PER DHIFT	CHECK LIST	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
220	FORMING FOR STRIP PLATING	FORMMING	P	KEY OUTLINE DIMENSION CHECK OUTLINE DIMENSION CHECK	OUTLINE DIMENSION CHECK	DD	SMD-T/F-02 SOP-B5035 TSOP-B5055	SHADOWGRAPH 3D MEASUREMENT SYS	1 SHOT EACH TRACK	BEGINNING & EVERY SHIFT & AFTER DIE REPAIRED	X-BAR S	1. NOTIFY EE. TO ADJUST M.C. 2. NOTIFY F/M & PE OR EE.					
			P	MECH. DEFECTS INSP. BODY BROKEN BODY BURR BODY CHIP FLASH LEAD TWIST PINCH ON LEAD REVERSE FORMING LEAD BURR TIN BURR POOR J-BEND FORMING			SMD-T/F-01 TSOP-B5026	MAGNIFIER	5 SHOTS EACH TRACK M/C RESTART: 5KEA PUNCH/DIE REPLACE: 2KEA	BEGINNING & EVERY LOT OR AFTER DIE REPAIRED M/C RESTART PUNCH/DIE REPLACE CHANGE LEADER BUSHING	CHECK LIST	1. NOTIFY EE. TO ADJUST M.C. 2. 100% SORTING 3. EER BODY BROKEN AND REVERSE FROMING NOTIFY PE AND EE. 4. OTHER DEFECT EER ALARM GATE AS SOP-B5017					
			P	MECH. DEFECTS INSP. BODY CRACK			SMD-T/F-07 TSOP-B5026	X45 MICROSCOPE	ONE SHOT	BEGINNING & AFTER DIE REPAIRED	CHECK LIST	1. NOTIFY EE. TO ADJUST M/C. 2. NOTIFY F/M & PE OR EE.					
335	AUTO PURE IN PLATING	YIHONG PAL AUTO BARREL PLATING SYSTEM	P		TANK# 5, 8, 12, 16, 20-25 PLATING TANK TEMP.		TANK#5=16.12 = 55-65 TANK#8 = 25-35 TANK#20-25= 18-25	CHECK M/C DISPLAY	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
			P		NO.8 ACTIVATION BATH STATUS		TOP-335	VISUAL INSPECTION	ONCE	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
			P		LIQUID LEVEL HEIGHT		TOP-335	CHECK M/C DISPLAY	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
			P		THE CURRENT OF TANK#20-25		SMA=160-180A SMB=160-180A SMC=90-110A	CHECK M/C DISPLAY	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
			PE*		NO. 20-25 PLATING BATH INGREDIENT		MSA=160-240 ML/L SN+2=15-30 G/L	CHEM. LAB ANALYSIS	20#, 24#	EVERY DAY	ANALYSIS REPORT	INFORM EE AND PE FOR ACTION					
					NO.16 NEUTRALIZATION TANK PH		PH=9	CHEM. LAB ANALYSIS	16#	EVERY DAY	ANALYSIS REPORT	INFORM EE AND PE FOR ACTION					
					NO.8 ACTIVATION BATH CONTROL		REPLACE WHEN PM	ROUTINE ADD	8#	EVERY SHIFT	CHECKLIST	INFORM EE AND PE FOR ACTION					
			P		BARREL STATION		TOP-335	VISUAL INSPECTION	-	EVERY BARREL EVERY SHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
					BARREL ROTATION STATION		MACHINE DISPLAY	AUTO ALARM	-	EVERY MACHINE PM	PM CHECK LIST	INFORM EE AND PE FOR ACTION					
			P		BARREL ROTATION STATION		TOP-335	VISUAL INSPECTION	1-11#, 12-19#, 20-23#, 24-25#	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
					BARREL ROTATION SPEED		TOP-335	VISUAL INSPECTION	20-23#, 24-25#	EVERY SHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
			P		NO. 5, 8, 12, 16, 19, 20-25 PUMP FLWS		TANK#5 = 9-15 TANK#8 = 24-30 TANK#12= 5-11 TANK#16= 40-50 TANK#19= 35-39 TANK#20-25= 115-135	CHECK FLOWMETER DISPLAY	-	EVERY TWO HOURS PER DHIFT	CHECK LIST	INFORM EE AND PE FOR ACTION					
			P		PLATING THICKNESS	DD	320 UNINCH ~1000 UNINCH	X-RAY	10EA	ONCE PER BARREL	X BAR S CHART	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			PE*		PB CONTENT IN PLATING SOLUTION	DT	<5PPM	AA	-	ONCE PER WEEK	CHECK LIST & TREND CHART	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			PE*		PB CONTENT IN PLATING LAYER	DT	<350PPM	AA	SMA/SMB 50EA SMC30 EA	ONCE PER WEEK (ONLY ONE TYPE FOR SMA/B/C)	CHECK LIST & TREND CHART	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			PE*		CU CONTENT IN PLATING SOLUTION		<50PPM	--	--	ONCE PER WEEK	ANALYSIS REPORT	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			HI-REL		REFLOW SIMULATION TEST		QA-SOP#3007	MICROSCOPE	10EA FROM SMX PRODUCT	ONCE PER DAY		INFORM F/M AND PE, ISSUE EER					
			P		SOLDERABILITY	DD	QA-SOP#3007	QA-SOP#3007	33EA	ONCE PER SHIFT , 11EA/SMA, 11EA/SMB, 11EA/SMC	CHECK LIST	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			IPQC		AGING TEST	DD	QA-SOP#3007	QA-SOP#3007	33EA	ONCE PER WEEK , 11EA/SMA, 11EA/SMB, 11EA/SMC	CHECK LIST	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			PE*		WETTING BALANCE TEST		235°C, 1.5S SOAKAGE	MACHINE DISPLAY	15EA	ONCE PER DAY, 3 LOTS SMA, 5EA/LOT	ANALYSIS REPORT	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			PE*		WETTING BALANCE TEST AFTER ONE HOUR STEAM AGING		235°C, 2.5S SOAKAGE	MACHINE DISPLAY	15EA	ONCE PER DAY, 3 LOTS SMA, 5EA/LOT	ANALYSIS REPORT	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			P		VISUAL INSPECTION		GS-4775	VISUAL INSPECTION	200EA	EVERY FLYING BAR PER SHIFT	CHECK LIST	IF FOUND ONE ABNORMAL, ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			P		SPIN DRYING TEMPERATURE AND TIME SET-UP		TOP-335	VISUAL INSPECTION	--	ONCE PER SHIFT	CHECK LIST	IF FOUND ONE ABNORMAL, ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					
			P		ANNEALING TEMPERATURE AND N2 CURRENT		150°C, 80L/MIN	MACHINE DISPLAY	--	EVERY TWO HOURS PER DHIFT	CHECK LIST	QUARANTINE PROBLEM MATERIAL. ISSUE EER. INFORM PE AND EE ENGINEER FOR ACTION					



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			Note	Product	Process	Sample Size				Sample Freq.					
535	TEST/MARK/TAPE	TMTT	P		*TESTER ACCURACY		STANDARD RESISTOR SMD-TMTT-10,12 SMD-TMTT-20,21,24 SMD-TMTT-07 SMD-TMTT-26,27		PARAMETER		1.ONLY-ONCE PER DAY 2.TEST MORE THAN TWICE PARAMETER PER WEEK				
			P		*BINNING ACCURACY		GOLDEN SAMPLE 1.SMD-TMTT-10,21,27 SMD-TMTT-07	CHECK BINNING	AT LEAST 10EA/EACH PARAMETER	1.PER WEEK	CHECK LIST	IF ABNORMAL IS OBSERVED, NOTIFY			
			P		TEST PROGRAM AUTO-LOADING WITH SCANNING ID LABEL.OP DOUBLE CHECK		SMD-PROD. 4A:4B:4C:4D:4E:4F:4G	VISUAL INSPECTION	ONCE	BY TYPE	CHECK LIST	F/M OR PE&EE TO DO ACTION CORRECT IMMEDIATELY AND RETEST.			
			p	IR/VF /VZ/VBR) O/S TRR(FER), VCT(VS), VL(AVALANCHE)			DD		TMTT AUTO ELECTRICAL		100% TEST AT LEAST		TMTT PROGRAM WITH AUTO-LOADING SYL&SBL CONTROL DEFINE ALARM GATE IN PROMIS SYSTEM	INFORM PE & F/M AND EE TSOP-B5015	
			P	MARKING MECH. DEFECTS INSP.: -ILLEGIBLE MARKING -NO MARKING -REV. REELING -WRONG MARKING -NO CATHOD BAND MARKING DEFORMING/SHIFT					MECHANICAL INSPECTION CRITERIA GS-4775	AUTO VISION 8-200% VISUAL INSPECTION (ALTERNATIVE SOLUTION)	100%	PER LOT	CHECK LIST	INFORM PE&EE & F/M FOR IMPROVEMENT,IF ABNORMAL	
				MARKING CONTENTS CHECK (WHEN CHANGE LOT, FOCUS ON START REEL PER TAPE TRACK.)					1.SMD-TMTT-01,02	VISUAL INSPECTION	100EA		LOT CHANGE: 1. CONFIRM PREVIOUS LOT BE CLEAN 2. CHECK START 100EA MARKING SAME WITH WORK ORDER SHEET(RC-65 SHEET)		
			P		TAPE DEVIATION				SMD-TMTT-03,04	VISUAL INSPECTION	20 CM	BEGINNING & EVERY 2 HRS	CHECK LIST	NOTIFY EE. TO RE-SETTING	
			P		100% LABEL CHECK			DD		VISUAL INSP.	100%	PER REEL	SIGN ON THE WORK ORDER SHEET (RC-65 SHEET)	1. REWORK 2. INFORM F/M TO DO WITH 3. RECORD AND D.M.D.A	
			P		TAPE PEELING FORCE TRACK TEST			DD	20-80G SMD-TMTT-05 SMD-TMTT-06 SMD-TMTT-06A TSOP-B5023	PEEL FORCE STRENGTH	30CM	SHIFT START/CHANGE TAPE/AFTER EE PM (ISM-3C&ISM-2B GULL WING TAPE EVERY 2HOURS) SILLMER/ISMECA EVERY 3HRS TP/JH EVERT 6HRS	X BAR R CHART	FOLLOW TSOP-B5023	
550	FINAL INSP.	LIGHT	P	MARKING DEFECTS: -ILLEGIBLE MARKING -NO MARKING -POOR PLATING -LEAD TWIST -BODY CRACK -WRONG DEVICE -MISS DEVICE -REVERSE FORMING -MIX. TYPE -BODY DAMAGE -REVERSE REELING -WRONG PLACEMENT -TAPE OPEN			SMD-FINAL-01 SMD-FINAL-02 SMD-FINAL-03 GS-3407-75C&E	VISUAL INSPECTION ESD GAUGE	100% OR SAMPLING CHECK PER SMX-3012		PER SHIFT	CHECK LIST	AS PER TSOP-B5018		
				MANUAL SEALING MACHINE	P	TAPE PEELING FORCE TRACK TEST FOR MANUAL REEL MACHINE		SMD-TMTT-25	PEELING FORCE TESTER	30CM	EVERY SHIFT	CHECK LIST	FOLLOW TSOP-B5025		
				VISUAL	P	100% LABEL CHECK		DD	AS PER WORK ORDER SHEET(RC65 SHEET)	VISUAL INSP.	6S VISION MACHINE- SAMPLING CHECK NON-6S VISION MACHINE- 100% CHECK	PER REEL	SIGN ON THE REEL	1. REWORK 2. INFORM F/M TO DO WITH 3. RECORD AND D.M.D.A	
			FA LAB	SEM	OQC	DELAMINATION			SOP-Q1-4032	CROSS SECTION	10 PCS	3 MONTHS	REPORT	INFORM QA & PE	

PE*: PE technician
AFTER MACHINE PM, CHECK MACHINE SETTING AND DEVICES AS ROUTINE START CHECK
REMARK: MACHINE POWER OFF BY ACCIDENT, AT THE BEGINNING OF MICHINE RECOVERY TO MASS PRODUCTION, KEEP THE SAME CONTROL METHOD, DOUBLE CONFIRMATION FOR ONE MORE TIME. REFER GSC4681
*MEANS ALTERNATIVE SOLUTION
★MEANS ERROR PROOFING IN PREVENTION

8. Measurement System Analysis Studies

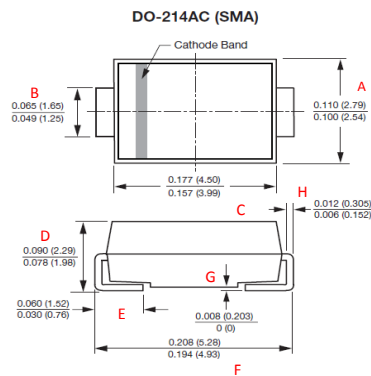
Not Available

9. Dimensional Results



SMA Dimension Summary Data

Unit: inch								
	A	B	C	D	E	F	G	H
SPEC	0.100-0.110	0.049-0.065	0.157-0.177	0.078-0.090	0.030-0.060	0.194-0.208	0.008max.	0.006-0.012
Min	0.1035	0.0610	0.1605	0.0815	0.0405	0.2005	0.0030	0.0080
Max	0.1065	0.0630	0.1630	0.0830	0.0485	0.2020	0.0040	0.0095
Avg.	0.1044	0.0619	0.1620	0.0822	0.0472	0.2010	0.0034	0.0089
Sigam	0.0007	0.0006	0.0009	0.0005	0.0018	0.0004	0.0005	0.0004
Avg.-3*Sigma	0.1023	0.0601	0.1592	0.0807	0.0418	0.1999	0.0019	0.0078
Avg.+3*Sigma	0.1064	0.0637	0.1648	0.0838	0.0527	0.2021	0.0049	0.0100
CPK	2.16	1.74	1.80	2.70	2.35	6.28	3.08	2.71
1	0.1045	0.0625	0.1630	0.0815	0.0480	0.2015	0.0030	0.0090
2	0.1035	0.0625	0.1615	0.0820	0.0480	0.2010	0.0030	0.0090
3	0.1045	0.0620	0.1615	0.0815	0.0405	0.2005	0.0030	0.0090
4	0.1040	0.0620	0.1615	0.0825	0.0480	0.2005	0.0030	0.0090
5	0.1035	0.0620	0.1625	0.0820	0.0475	0.2010	0.0040	0.0085
6	0.1045	0.0620	0.1605	0.0830	0.0480	0.2010	0.0040	0.0090
7	0.1050	0.0620	0.1605	0.0825	0.0480	0.2010	0.0040	0.0090
8	0.1045	0.0610	0.1625	0.0830	0.0480	0.2010	0.0040	0.0085
9	0.1040	0.0625	0.1630	0.0820	0.0480	0.2015	0.0040	0.0095
10	0.1045	0.0630	0.1630	0.0820	0.0485	0.2020	0.0030	0.0080
11	0.1035	0.0620	0.1625	0.0815	0.0470	0.2010	0.0030	0.0090
12	0.1040	0.0620	0.1625	0.0820	0.0480	0.2005	0.0030	0.0090
13	0.1045	0.0620	0.1605	0.0815	0.0480	0.2010	0.0040	0.0085
14	0.1050	0.0625	0.1610	0.0825	0.0480	0.2010	0.0030	0.0090
15	0.1045	0.0620	0.1630	0.0820	0.0475	0.2010	0.0030	0.0085
16	0.1055	0.0610	0.1625	0.0815	0.0480	0.2005	0.0030	0.0090
17	0.1065	0.0610	0.1605	0.0830	0.0480	0.2010	0.0030	0.0090
18	0.1050	0.0620	0.1610	0.0825	0.0475	0.2010	0.0030	0.0085
19	0.1035	0.0620	0.1630	0.0825	0.0480	0.2010	0.0040	0.0090
20	0.1045	0.0610	0.1615	0.0830	0.0435	0.2010	0.0030	0.0085
21	0.1035	0.0620	0.1615	0.0820	0.0450	0.2010	0.0030	0.0090
22	0.1040	0.0610	0.1625	0.0820	0.0430	0.2010	0.0040	0.0085
23	0.1050	0.0620	0.1605	0.0830	0.0480	0.2015	0.0040	0.0090
24	0.1040	0.0610	0.1630	0.0820	0.0470	0.2005	0.0030	0.0095
25	0.1035	0.0630	0.1625	0.0820	0.0480	0.2005	0.0030	0.0090
26	0.1045	0.0620	0.1615	0.0815	0.0480	0.2015	0.0030	0.0090
27	0.1045	0.0620	0.1630	0.0825	0.0475	0.2010	0.0040	0.0095
28	0.1040	0.0610	0.1625	0.0825	0.0480	0.2005	0.0030	0.0090
29	0.1045	0.0620	0.1625	0.0830	0.0480	0.2010	0.0040	0.0085
30	0.1040	0.0610	0.1630	0.0820	0.0480	0.2015	0.0040	0.0095

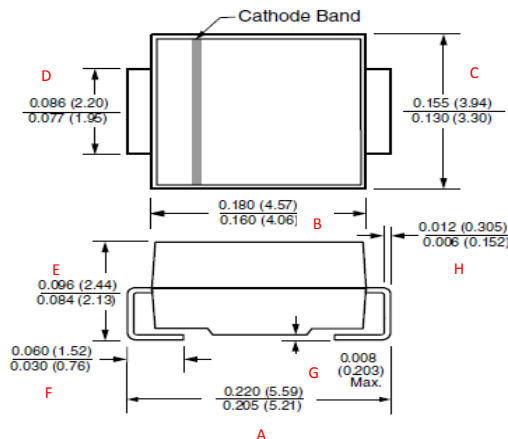




SMB Dimension Summary Data

Unit: inch								
SPEC	A	B	C	D	E	F	G	H
	0.205~0.220	0.160~0.180	0.130~0.155	0.077~0.086	0.084~0.096	0.030~0.060	0.008max.	0.006~0.012
Min	0.2100	0.1690	0.1400	0.0830	0.0870	0.0375	0.0020	0.0080
Max	0.2120	0.1715	0.1415	0.0840	0.0890	0.0440	0.0045	0.0096
Avg.	0.2106	0.1706	0.1409	0.0837	0.0880	0.0414	0.0033	0.0091
Sigam	0.0006	0.0007	0.0005	0.0004	0.0008	0.0019	0.0008	0.0006
Avg.-3*Sigma	0.2088	0.1683	0.1393	0.0823	0.0857	0.0358	0.0009	0.0073
Avg.+3*Sigma	0.2124	0.1728	0.1425	0.0850	0.0903	0.0470	0.0057	0.0108
CPK	3.09	4.22	6.63	1.74	1.72	2.04	1.95	1.70
1	0.2110	0.1710	0.1410	0.0840	0.0890	0.0417	0.0025	0.0095
2	0.2110	0.1705	0.1415	0.0830	0.0875	0.0390	0.0035	0.0095
3	0.2100	0.1710	0.1400	0.0830	0.0875	0.0410	0.0035	0.0090
4	0.2110	0.1710	0.1410	0.0840	0.0890	0.0436	0.0045	0.0096
5	0.2110	0.1705	0.1410	0.0840	0.0890	0.0410	0.0040	0.0090
6	0.2110	0.1700	0.1410	0.0840	0.0875	0.0436	0.0020	0.0080
7	0.2105	0.1690	0.1400	0.0835	0.0875	0.0440	0.0025	0.0085
8	0.2110	0.1710	0.1410	0.0840	0.0875	0.0420	0.0020	0.0090
9	0.2100	0.1690	0.1415	0.0840	0.0870	0.0410	0.0040	0.0085
10	0.2100	0.1710	0.1415	0.0835	0.0875	0.0390	0.0035	0.0095
11	0.2110	0.1710	0.1415	0.0840	0.0890	0.0410	0.0040	0.0096
12	0.2110	0.1710	0.1400	0.0830	0.0875	0.0420	0.0035	0.0095
13	0.2120	0.1700	0.1410	0.0840	0.0890	0.0375	0.0025	0.0090
14	0.2100	0.1690	0.1410	0.0840	0.0880	0.0436	0.0020	0.0095
15	0.2100	0.1710	0.1415	0.0830	0.0870	0.0410	0.0045	0.0096
16	0.2100	0.1710	0.1410	0.0840	0.0880	0.0410	0.0040	0.0095
17	0.2100	0.1710	0.1415	0.0840	0.0890	0.0430	0.0020	0.0096
18	0.2100	0.1710	0.1410	0.0840	0.0880	0.0417	0.0040	0.0080
19	0.2100	0.1710	0.1400	0.0840	0.0880	0.0410	0.0025	0.0096
20	0.2110	0.1710	0.1410	0.0840	0.0870	0.0436	0.0025	0.0080
21	0.2100	0.1710	0.1400	0.0835	0.0890	0.0410	0.0035	0.0090
22	0.2110	0.1700	0.1410	0.0840	0.0870	0.0436	0.0040	0.0080
23	0.2105	0.1690	0.1400	0.0840	0.0875	0.0440	0.0025	0.0090
24	0.2100	0.1710	0.1415	0.0830	0.0890	0.0410	0.0040	0.0096
25	0.2120	0.1710	0.1415	0.0830	0.0890	0.0420	0.0035	0.0090
26	0.2100	0.1715	0.1410	0.0840	0.0875	0.0420	0.0025	0.0090
27	0.2110	0.1705	0.1400	0.0830	0.0880	0.0410	0.0035	0.0096
28	0.2110	0.1710	0.1410	0.0840	0.0890	0.0375	0.0040	0.0080
29	0.2105	0.1695	0.1410	0.0830	0.0870	0.0410	0.0035	0.0095
30	0.2100	0.1710	0.1410	0.0840	0.0875	0.0375	0.0040	0.0090

SMB (DO-214AA)

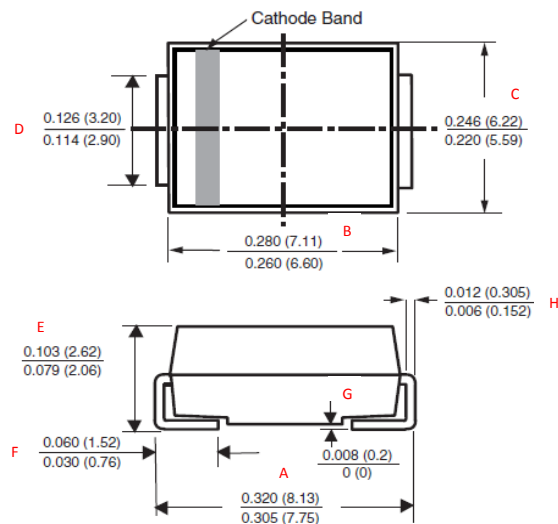




SMC Dimension Summary Data

Unit: inch								
	A	B	C	D	E	F	G	H
SPEC	0.305-0.320	0.260-0.280	0.220-0.245	0.114-0.126	0.079-0.103	0.030-0.060	0.008(max)	0.006-0.012
Min	0.3120	0.2630	0.2285	0.1220	0.0840	0.0380	0.0025	0.0080
Max	0.3160	0.2650	0.2335	0.1235	0.0895	0.0445	0.0060	0.0105
Avg.	0.3142	0.2646	0.2313	0.1230	0.0881	0.0421	0.0038	0.0090
Sigam	0.0011	0.0006	0.0014	0.0003	0.0015	0.0018	0.0008	0.0005
Avg.-3*Sigma	0.3109	0.2630	0.2272	0.1220	0.0836	0.0368	0.0013	0.0075
Avg.+3*Sigma	0.3176	0.2663	0.2354	0.1240	0.0926	0.0475	0.0062	0.0106
CPK	1.73	2.78	2.74	3.01	2.00	2.26	1.71	1.93
1	0.3150	0.2650	0.2320	0.1230	0.0850	0.0445	0.0025	0.0095
2	0.3130	0.2650	0.2320	0.1230	0.0890	0.0445	0.0040	0.0080
3	0.3160	0.2640	0.2330	0.1230	0.0880	0.0415	0.0030	0.0090
4	0.3140	0.2640	0.2325	0.1230	0.0895	0.0415	0.0040	0.0090
5	0.3140	0.2650	0.2300	0.1230	0.0890	0.0380	0.0050	0.0090
6	0.3150	0.2650	0.2335	0.1230	0.0890	0.0415	0.0043	0.0105
7	0.3135	0.2650	0.2295	0.1230	0.0890	0.0415	0.0040	0.0090
8	0.3140	0.2630	0.2310	0.1225	0.0895	0.0415	0.0030	0.0090
9	0.3150	0.2650	0.2320	0.1230	0.0850	0.0415	0.0030	0.0085
10	0.3120	0.2640	0.2335	0.1235	0.0840	0.0430	0.0044	0.0090
11	0.3150	0.2650	0.2285	0.1230	0.0860	0.0380	0.0040	0.0090
12	0.3135	0.2650	0.2300	0.1230	0.0890	0.0430	0.0030	0.0085
13	0.3150	0.2650	0.2315	0.1220	0.0880	0.0416	0.0040	0.0095
14	0.3150	0.2650	0.2320	0.1230	0.0880	0.0445	0.0025	0.0095
15	0.3130	0.2640	0.2320	0.1235	0.0890	0.0445	0.0046	0.0080
16	0.3135	0.2650	0.2330	0.1235	0.0890	0.0430	0.0060	0.0095
17	0.3120	0.2650	0.2300	0.1235	0.0880	0.0430	0.0040	0.0088
18	0.3150	0.2650	0.2310	0.1230	0.0890	0.0415	0.0046	0.0090
19	0.3150	0.2650	0.2315	0.1230	0.0880	0.0416	0.0040	0.0095
20	0.3150	0.2640	0.2320	0.1230	0.0850	0.0445	0.0025	0.0095
21	0.3150	0.2650	0.2305	0.1230	0.0890	0.0415	0.0040	0.0090
22	0.3120	0.2650	0.2320	0.1230	0.0895	0.0415	0.0030	0.0090
23	0.3135	0.2640	0.2315	0.1230	0.0880	0.0430	0.0040	0.0085
24	0.3135	0.2640	0.2330	0.1230	0.0890	0.0430	0.0030	0.0095
25	0.3150	0.2640	0.2300	0.1230	0.0880	0.0435	0.0040	0.0088
26	0.3150	0.2650	0.2305	0.1230	0.0890	0.0420	0.0040	0.0095
27	0.3150	0.2650	0.2305	0.1230	0.0890	0.0380	0.0030	0.0085
28	0.3135	0.2650	0.2295	0.1230	0.0890	0.0415	0.0030	0.0088
29	0.3160	0.2650	0.2285	0.1230	0.0885	0.0435	0.0047	0.0090
30	0.3150	0.2640	0.2315	0.1220	0.0880	0.0416	0.0040	0.0095

DO-214AB (SMCJ)



10. Material, Performance Test Results

**Production Part Approval -
Environmental Test Summary**

Date: 1/11/2019

Request Part Number		
Package	SMA, SMB, SMC	
FAB	TVS	

Package Qualification:	SMA, SMB, SMC	
Package process used	SMAJ550HE3_B	SMA
	SMBJ3V3HE3_A	SMB
	1.5SMC43CAHM3_A	SMC

FAB Process:	Requested	TVS	
FAB Process Used		SMAJ550HE3_B	TVS
		SMBJ3V3HE3_A	TVS
		1.5SMC43CAHM3_A	TVS

Test Item & Condition	Duration	SMAJ550HE3_B	SMBJ3V3HE3_A	1.5SMC43CAHM3_A
Solderability	Post	0 / 10	0 / 10	0 / 10
@steam aging (93°C/8hrs) + 245°C/5sec				
Solder Dip	Post	0 / 30	0 / 30	0 / 30
@Bake:130°C/24H→Moisture Soak:85°C/85%RH/168H→265°C/10sec				

SMA (DO-214AC)

Whisker Testing Report					
JESD201 Class	2	Report Date	05/19/13		
Family	Surface Mount	Finish	Matt tin		
Package outline	DO-214AC (SMA)	Underlayer	None		
P/N	SIG	Underlayer Spec	N/A		
Mfg loc	VGSC	Min thickness (Umch)	315.00		
Plating line	PL07 Mecro	Actual thickness (Umch)	532.72		
Plating type	Strip Plating	Min thickness (Um)	8.00		
plating solution	RoHM & Haas ST-300T	Actual thickness (Um)	13.53		
PB %	<5ppm	Mitigation	anneal 150°C 1 Hour		
		DC	SC2A		
SPEC: MAX allowable Tin whisker length 45um					
Lot No.	Precondition	TC -55C/85C 10min			
		500C	1000C	1500C	
1	Pbfree reflow	0	0	14.2	
2	No reflow	16.7	24.8	35.1	
3	Snpb reflow	16.7	22.5	29.2	
SPEC: MAX allowable Tin whisker length 40um					
Lot No.	Precondition	Temp./Humi. 30C/60%RH			
		1000H	2000H	3000H	4000H
1	Pbfree reflow	0	0	0	0
2	No reflow	0	0	0	0
3	Snpb reflow	0	0	0	0
SPEC: MAX allowable Tin whisker length 40um					
Lot No.	Precondition	High Temp./Humi. 55C/85%RH			
		1000H	2000H	3000H	4000H
1	Pbfree reflow	0	0	0	0
2	No reflow	0	0	0	0
3	Snpb reflow	0	0	0	0
VGSC Whisker Testing Center					

SMB (DO-214AA)

Whisker Testing Report					
JESD201 Class	2	Report Date	08/22/13		
Family	surface mount	Finish	Matt Tin		
Package outline	DO-214AA (SMB)	Underlayer	None		
P/N	SMB	Underlayer Spec	N/A		
Mfg loc	VGSC	Min thickness (Umch)	315.00		
Plating line	PL07 Mecro	Actual thickness (Umch)	451.97		
Plating type	Strip Plating	Min thickness (Um)	8.00		
plating solution	RoHM&Haas ST-300T	Actual thickness (Um)	11.48		
PB %	<5ppm	Mitigation	Annealing 150C 1H		
		DC	S432		
SPEC: MAX allowable Tin whisker length 45um					
Lot No.	Precondition	TC -55C/85C 10min			
		500C	1000C	1500C	
1	Pbfree reflow	15.5	18.9	18.4	
2	No reflow	16.2	26.8	26.4	
3	Snpb reflow	24.8	24.5	23.3	
SPEC: MAX allowable Tin whisker length 40um					
Lot No.	Precondition	Temp./Humi. 30C/60%RH			
		1000H	2000H	3000H	4000H
1	Pbfree reflow	0	0	0	0
2	No reflow	0	0	0	0
3	Snpb reflow	0	0	0	0
SPEC: MAX allowable Tin whisker length 40um					
Lot No.	Precondition	High Temp./Humi. 55C/85%RH			
		1000H	2000H	3000H	4000H
1	Pbfree reflow	0	0	0	22.4
2	No reflow	0	0	0	13.6
3	Snpb reflow	0	0	0	23.6
VGSC Whisker Testing Center					

SMC(DO-214AB)

Whisker Testing Report					
JESD201 Class	2	Report Date	03/04/15		
Family	Surface Mount	Finish	Mattin tin		
Package outline	DO-214AB (SMC)	Underlayer	None		
P/N	SIG-E3	Underlayer Spec	N/A		
Mfg loc	VGSC	Min thickness (Umch)	315.00		
Plating line	PL07	Actual thickness (Umch)	543.00		
Plating type	Strip plating	Min thickness (Um)	8.00		
Plating solution	Robm & Haas ST-300T	Actual thickness (Um)	13.79		
PB %	<5ppm	Mitigation	Annealing 150°C 1hour		
		DC	43		
SPEC: MAX allowable Tin whisker length 45um					
Lot No.	Precondition	TC -55C/85C 10min			
		500C	1000C	1500C	
1	Pbfree reflow	7.74	9.62	17.9	
2	No reflow	12.8	24.9	25.7	
3	Snpb reflow	16.6	20.6	32.1	
SPEC: MAX allowable Tin whisker length 40um					
Lot No.	Precondition	Temp./Humi. 30C/60%RH			
		1000H	2000H	3000H	4000H
1	Pbfree reflow	0	0	0	0
2	No reflow	0	0	0	0
3	Snpb reflow	0	0	0	0
SPEC: MAX allowable Tin whisker length 40um					
Lot No.	Precondition	High Temp./Humi. 55C/85%RH			
		1000H	2000H	3000H	4000H
1	Pbfree reflow	0	28	30.7	30
2	No reflow	0	0	34.3	33.6
3	Snpb reflow	0	21.2	28.3	24.5
VGSC Whisker Testing Center					

SMA Plating Thickness (unit: uinch)

Strip plating

SMA			
	Lot 1	Lot 2	Lot 3
Min.	486.7	490.8	452.7
Max.	733.4	664.0	722.7
Xbar	606.4	588.3	602.9
Sigma	53.0	39.2	51.1
Cpk	1.80	2.28	1.85
	592.8	629.1	620.5
	639.5	664.0	638.0
	631.4	642.6	593.5
	549.3	497.4	583.7
	611.9	531.6	696.1
	515.1	616.2	556.6
	622.7	576.6	569.5
	592.8	590.7	621.6
	546.9	634.1	621.1
	612.1	628.3	592.9
	607.5	599.9	638.1
	600.4	628.8	603.1
	733.4	629.0	553.0
	656.8	620.3	696.6
	601.2	586.5	695.8
	581.3	583.2	617.3
	692.1	566.0	519.1
	497.7	594.9	619.0
	633.4	590.8	580.1
	579.1	543.6	607.8
	622.7	632.6	584.1
	623.6	604.7	619.7
	642.6	563.5	596.6
	631.0	592.5	619.6
	590.9	650.0	627.4
	659.6	613.3	722.7
	487.8	544.2	688.0
	571.5	557.3	647.6
	527.9	490.8	601.0
	631.1	618.7	607.8
	633.5	585.4	631.0
	642.1	553.8	577.9
	665.1	565.8	606.3
	672.6	557.3	514.3
	595.7	638.3	528.4
	642.7	588.9	512.9
	486.7	570.9	624.6
	619.4	583.0	452.7
	619.2	586.8	562.1
	644.0	497.4	548.2
	644.7	531.9	619.1
	688.6	602.3	583.0
	595.9	625.1	546.5
	566.8	552.0	622.1
	561.0	617.2	602.1
	630.8	593.4	605.8
	497.0	578.8	645.6
	597.5	579.4	578.7
	607.9	578.9	606.8
	624.6	608.3	640.7

Barrel plating

SMA			
	Lot 1	Lot 2	Lot 3
Min.	415.4	430.4	472.6
Max.	761.9	653.7	693.2
Xbar	578.2	516.3	580.7
Sigma	76.0	45.1	61.1
Cpk	1.13	1.45	1.42
	415.4	481.3	541.3
	576.8	497.3	491.5
	537.7	492.0	631.6
	546.7	503.6	614.2
	579.3	521.3	492.4
	529.4	503.0	596.7
	667.9	498.0	497.0
	563.4	517.1	533.4
	531.0	530.1	496.6
	452.6	519.1	578.6
	516.6	507.7	510.0
	448.1	475.1	626.4
	456.9	495.8	577.3
	530.7	492.9	529.3
	493.8	513.5	654.9
	492.9	533.9	515.1
	564.2	510.5	613.9
	702.4	533.8	608.8
	443.9	483.2	693.2
	662.7	520.9	496.2
	527.9	512.0	480.7
	472.3	490.5	562.8
	593.6	529.7	672.0
	567.4	519.9	589.4
	578.7	493.1	666.3
	637.9	500.8	649.1
	567.6	530.9	621.4
	630.2	526.5	474.7
	614.0	487.6	472.6
	727.0	493.8	598.5
	622.6	564.6	673.8
	599.3	653.7	580.7
	624.3	617.0	563.8
	621.8	572.7	612.5
	597.9	445.6	564.0
	640.6	541.6	577.3
	596.2	560.1	611.3
	711.0	503.2	674.8
	761.9	574.7	594.6
	590.0	646.8	641.4
	576.0	532.4	512.1
	621.0	460.7	650.2
	634.2	524.4	631.6
	574.2	449.8	551.8
	679.2	559.2	541.6
	582.7	464.4	590.6
	515.8	477.8	594.7
	642.2	558.9	532.2
	559.1	430.4	666.5
	530.4	462.5	583.2

SMB Plating Thickness (unit: uinch)

Strip plating

SMB			
	Lot 1	Lot 2	Lot 3
Min.	439.1	475.0	456.4
Max.	670.1	684.9	644.3
Xbar	572.9	554.8	560.3
Sigma	47.4	40.3	43.2
Cpk	1.78	1.94	1.85
	556.4	540.9	600.2
	599.2	551.1	528.2
	611.0	520.3	567.1
	562.5	557.4	579.4
	554.3	551.1	558.8
	607.5	567.7	563.6
	603.1	572.7	574.4
	525.7	554.7	524.3
	509.2	552.8	505.3
	650.8	599.1	524.8
	562.6	542.9	589.2
	557.6	641.9	478.5
	619.0	684.9	557.6
	623.5	508.6	534.5
	530.4	543.8	549.8
	641.7	585.7	555.0
	552.9	541.3	599.7
	565.9	571.2	586.3
	606.7	552.1	524.8
	496.2	527.0	524.8
	515.6	522.0	626.7
	624.9	502.3	558.4
	578.6	554.9	518.2
	531.3	580.3	552.0
	499.7	607.3	553.5
	559.0	578.9	511.5
	612.7	566.0	513.7
	580.9	508.4	481.9
	570.2	512.6	532.1
	507.4	519.8	603.0
	566.9	559.5	528.3
	621.5	551.6	580.8
	611.0	594.9	598.5
	527.4	561.0	566.6
	621.6	491.8	565.7
	563.3	543.6	563.1
	582.9	511.8	615.5
	576.5	541.1	456.4
	654.0	475.0	644.3
	670.1	483.4	610.1
	439.1	537.1	541.7
	550.4	605.7	635.2
	583.8	553.9	561.9
	590.1	542.6	605.4
	545.5	620.5	543.0
	552.1	604.4	509.1
	546.0	526.2	639.0
	654.6	588.6	637.7
	535.4	529.7	554.1
	537.9	599.0	581.8

Barrel plating

SMB			
	Lot 1	Lot 2	Lot 3
Min.	465.9	425.6	397.9
Max.	712.2	763.8	739.1
Xbar	529.0	519.9	511.9
Sigma	57.6	58.8	73.9
Cpk	1.21	1.13	0.87
	483.8	569.5	523.3
	465.9	440.4	492.3
	487.4	608.4	514.1
	527.0	490.0	522.5
	509.2	508.8	513.5
	491.3	508.7	506.3
	492.0	525.1	522.8
	477.7	493.7	524.3
	507.1	518.1	542.5
	496.9	496.6	503.5
	480.4	496.7	542.8
	505.5	507.3	592.3
	493.0	493.9	701.4
	528.0	498.8	636.5
	521.6	488.8	536.3
	505.8	521.5	576.5
	513.9	481.3	739.1
	535.3	508.8	702.2
	502.6	504.1	642.3
	499.4	486.2	604.7
	500.7	528.7	503.0
	491.5	492.8	491.8
	512.1	519.8	491.7
	547.7	497.5	466.1
	524.2	495.2	491.3
	608.7	501.6	496.2
	579.8	531.0	473.5
	704.6	502.4	460.6
	712.2	543.3	469.0
	643.2	534.8	481.6
	627.3	507.3	419.1
	676.5	508.5	436.9
	626.3	488.5	457.9
	501.6	524.4	432.3
	502.4	479.0	449.8
	508.5	506.5	512.0
	531.0	513.1	446.7
	507.3	514.3	464.3
	534.8	476.6	512.4
	507.6	527.0	465.5
	483.6	518.2	560.9
	487.5	512.9	440.9
	516.9	480.8	475.8
	479.0	696.0	465.3
	513.1	425.6	557.1
	527.7	763.8	401.2
	524.4	437.5	496.6
	529.9	560.4	468.9
	499.4	594.1	469.3
	518.6	665.3	397.9

SMC Plating Thickness (unit: uinch)

Strip plating

SMC			
	Lot 1	Lot 2	Lot 3
Min.	454.2	453.9	448.3
Max.	591.0	594.1	585.3
Xbar	522.2	526.3	524.6
Sigma	37.1	36.5	33.2
Cpk	1.82	1.88	2.05
	478.3	536.1	503.3
	556.2	584.8	516.2
	539.0	498.2	557.8
	531.4	531.9	479.7
	544.3	521.9	509.3
	578.6	508.6	536.7
	491.3	490.4	529.5
	454.2	588.8	516.7
	480.9	594.0	554.2
	485.0	577.8	492.4
	550.7	594.1	498.9
	513.0	536.3	585.3
	491.7	550.7	500.8
	531.1	556.8	572.5
	551.8	546.5	574.2
	589.2	493.5	549.5
	517.0	453.9	559.7
	483.2	570.0	560.8
	543.9	535.3	520.7
	524.5	520.1	448.3
	481.4	486.0	514.1
	536.3	499.7	480.6
	556.8	535.5	484.6
	482.1	507.3	559.4
	536.9	525.3	544.5
	522.0	571.0	563.7
	541.7	472.2	488.8
	564.9	572.1	465.8
	580.1	497.1	518.9
	514.0	569.6	544.5
	483.3	527.5	518.0
	495.8	479.4	535.9
	485.3	510.8	461.3
	487.3	540.6	584.2
	473.0	541.9	477.9
	591.0	457.0	553.9
	538.7	494.8	543.4
	588.3	520.7	542.2
	494.3	555.8	546.0
	573.9	483.6	545.6
	567.3	531.7	526.8
	492.1	544.8	522.1
	488.8	524.4	540.7
	532.7	485.9	496.6
	497.4	576.3	527.1
	533.7	488.1	527.3
	469.6	500.6	474.9
	486.1	495.9	493.1
	571.5	542.7	548.5
	506.2	488.2	533.5

Barrel plating

SMC			
	Lot 1	Lot 2	Lot 3
Min.	443.6	402.8	414.5
Max.	742.6	749.9	871.9
Xbar	534.5	526.8	561.5
Sigma	63.1	71.0	96.7
Cpk	1.13	0.97	0.83
	515.9	475.0	714.4
	496.1	425.7	508.9
	500.7	636.4	748.4
	513.0	592.9	871.9
	479.3	402.8	641.1
	447.2	588.9	676.7
	451.7	454.6	605.0
	459.0	483.1	750.7
	483.4	558.6	792.6
	506.4	424.4	715.1
	561.2	468.4	416.5
	498.8	512.2	498.8
	705.9	495.4	561.5
	527.4	493.2	551.5
	591.6	537.3	508.5
	523.1	518.8	515.9
	587.1	500.2	462.6
	455.0	489.0	569.8
	502.2	513.8	628.4
	595.1	524.4	611.7
	472.4	475.5	587.9
	542.9	507.3	534.5
	516.2	486.5	474.5
	464.3	517.8	559.0
	503.2	528.4	440.7
	506.5	487.1	492.3
	496.0	501.5	414.5
	504.7	544.8	497.9
	502.2	512.6	590.4
	485.6	494.0	483.2
	742.6	489.5	608.3
	645.3	515.4	498.8
	598.7	504.9	518.8
	601.5	495.2	605.8
	602.2	469.0	522.5
	577.1	476.8	538.1
	533.0	511.1	631.6
	521.0	508.3	539.7
	593.4	492.7	567.6
	597.1	506.2	608.0
	591.3	641.4	470.2
	503.5	610.2	508.2
	485.6	749.9	517.7
	532.8	532.4	491.8
	607.9	507.7	502.3
	524.3	727.1	499.3
	523.6	704.7	479.3
	538.6	582.8	516.4
	566.7	599.7	522.1
	443.6	565.5	501.5

11. Initial Process Study

Not Available

12. Qualified Laboratory Documentation



Vishay Diodes

Subject: Laboratory Accreditation and Scope of Accreditation

To Whom it May Concern:

Vishay Diodes is a IATF16949 certified manufacture for discrete semiconductor components for Automotive industry. as such all locations internally are considered suitably and accredited to perform the following:

1. Qualifications, inspections & Reliability testing per:
AEC requirements, JEITA EIA
JEDEC MIL-STD
IEC IPC

No third party or outside testing is used for any of the above items.

If you have any questions, please contact Vishay Diodes (VGSC) Reliability Manager.

Sincerely,

A handwritten signature in black ink that reads "Rick Chu".

Rick Chu,
Manager
Diodes VGSC Reliability

13. Appearance Approval Report

Not Available

14. Sample Production Parts

Not Available

15. Master Sample

Not Available

16. Checking Aids

Not Available

17. Component Contents Report (IMDS)



TO: PDD marketing
FROM: Vishay General Semiconductor Quality Department
SUBJECT: Warranty for Non-Inclusion of Hazardous Substances in Products

DATE: . 4.5.2016

Dear Sir/Madam,

It is the policy of Vishay General Semiconductor to:

- 1 Meet all present and future national and international statutory requirements.
- 2 Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is of particular concern to control or eliminate the use of those substances with established hazardous properties.

With this objective we have reviewed our manufacturing processes and materials against the following directives:

- a) 2000/53/EC End of Vehicle Life Directive (EVL)
- b) 2000/53/EC Annex II to End of Vehicle Life (EVL II)
- c) 2002/95/EC Directive of 27 January 2003 on the Restriction of the use of certain Hazardous Substances (RoHS) in electrical and electronic equipment
- d) 2002/96/EC Waste Electrical and Electronic Equipment (WEEE)
- e) 2011/65/EU Directive of 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 8 June 2011 on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment(recast) (commonly referred to as RoHS II)
- f) 2015/863/EU COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances

We hereby warrant that the customer approved products supplied by Vishay General Semiconductor comply fully with these directives.

Vishay General Semiconductor Taiwan Ltd.

233, Pao Chiao Rd., Hsin Tien Taipei, Taiwan, R.O.C. Phone (886) 2-2911-3861 Fax (886) 2-2910-1964 www.vishay.com ONE OF THE
WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENTS



In making this warranty we use the following exemptions as outlined in EVL II & RoHS RECAST.

Materials and Components	Scope of Exemption	Vishay Function/Application
Solder in electronic circuit boards and other electric applications	7a - Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	Internal Die Attach
Electrical components which contain lead in a glass or ceramic matrix compound, except glass in bulbs and glaze of spark plugs.	7(c)-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound glass orceramic matrix compoundof cathode ray tubes, electronic components and fluorescent tubes.	Glass passivation at die level.

Material Declaration

Material Declaration reports on individual part numbers or product families are available by contacting surveys.

Lead Free Plating

The position of Vishay General Semiconductor regarding leadfree terminal plating has been published elsewhere. All products are available with a leadfree finish. Please contact your Marketing or Customer Service Representative for details.

Halogen Free

The position of Vishay General Semiconductor regarding Halogen Free product has been published elsewhere. Some products are available with Halogen Free raw material. Please contact your Marketing or Customer Service Representative for details.

Lizzy Fan

Material Environmental Engineer
Quality Department

Vishay General Semiconductor
VPECM.Surveys@vishay.com

Vishay General Semiconductor Taiwan Ltd.

233, Pao Chiao Rd., Hsin Tien Taipei, Taiwan, R.O.C. Phone (886) 2-2911-3861 Fax (886) 2-2910-1964 www.vishay.com

ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENTS



DIODES PPAP

PRODUCTION PART APPROVAL PROCESS

17.
**Records of Compliance with
Customer-Specific
Requirements**

MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 132648-2013-AQ-RGC-IATF

Valid until:
10 May, 2018 – 09 May, 2021

IATF Certificate No.: 0304121

This is to certify that the management system of

Vishay General Semiconductor (China) Co., Ltd.

No. 88, 6th Avenue, TEDA, Tianjin, P.R. China
and, if applicable, the remote support locations as mentioned in the Appendix
accompanying this Certificate

has been found to conform to quality management system standard:
IATF 16949:2016

This certificate is valid for the following Scope:

**DESIGN AND MANUFACTURE OF POWER RECTIFIERS AND
PROTECTION DEVICES**

Place and date:

Katy, TX. 11 May 2018



For the issuing office:

**DNV GL - Business Assurance
Tianjin, China**


Robert Kozak
Management Representative

Certificate No.: 132648-2013-AQ-RGC-IATF
 IATF Certificate No.: 0304121
 Place and date: **Katy, TX.** 11 May 2018

Appendix to Certificate

Vishay General Semiconductor (China) Co., Ltd.

Remote Support Locations included in the certification are as follows:

Name	Address	RSL Activities	Certification Body
Vishay BC components Hong Kong Limited	3/F, Tuen Mun Distribution Centre, Building 1, 3A Hung Cheung Road, Tuen Mun, N.T., Hong Kong	Logistic, Warehousing	SGS
Vishay General Semiconductor Taiwan Limited	No. 233 Pao Chiao Road, Hsin Tien District, New Taipei City, Taiwan, R.O.C	Marketing, R&D	SGS
Vishay SA	199 boulevard de la Medeleine, 06003, Nice Cedex 1, France	Contract Review, Customer Service	BV
Vishay Semiconductor Italiana SPA	VIA LIGURIA49-10071 BORGARO TORINESE (TO)	R&D	CSQ



18. Part Submission Warrant (PSW)



Part Submission Warrant

Part Name TRANSZORB® TVS and Zener Products in SMA, SMB and SMC Packages Cust. Part No. As attached list
 Shown on Drawing No. As attached list Org. Part No. PCN-DD-004-2019
 Engineering Change Level n/a Dated 2019 Jan
 Additional Engineering Changes n/a Dated n/a
 Safety and/or Government Regulation Yes No Purchase Order No. n/a Weight: approx. As attached list
 Checking Aid No. n/a Checking Aid Engineering Change Level n/a Dated n/a

ORGANIZATION MANUFACTURING INFORMATION

Vishay General Semiconductor(China) Co.,Ltd.
 Organization Name & Supplier/Vendor Code
NO 88, 6th Avenue
 Street Address
TEDA Tianjin Asia 300457 China
 City Region Postal Code Country

CUSTOMER SUBMITTAL INFORMATION

Generic PPAP
 Customer Name/Division
unk
 Buyer/Buyer Code
unk
 Application

MATERIALS REPORTING

Has customer-required Substances of Concern information been reported? Yes No n/a
 Submitted by IMDS format:
 Vishay PPAP # 2019 - - Tianjin

Are polymeric parts identified with appropriate ISO marking codes? Yes No n/a

REASON FOR SUBMISSION (Check at least one)

- Initial Submission
- Engineering Change(s)
- Tooling: Transfer, Replacement, Refurbishment, or additional
- Correction of Discrepancy
- Tooling Inactive > than 1 year
- Change to Optional Construction or Material
- Supplier or Material Source Change
- Change in Part Processing
- Parts Produced at Additional Location
- Other - please specify below

REQUESTED SUBMISSION LEVEL (Check one)

- Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- Level 2 - Warrant with product samples and limited supporting data submitted to customer.
- Level 3 - Warrant with product samples and complete supporting data submitted to customer.
- Level 4 - Warrant and other requirements as defined by customer.
- Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.

SUBMISSION RESULTS

The results for dimensional measurements material and functional tests appearance criteria statistical process package
 These results meet all drawing and specification requirements: Yes No (If "NO" - Explanation Required)
 Mold / Cavity / Production Process N/A

DECLARATION

I affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of 187 k / 24 hours.
 I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from the declaration below.

EXPLANATION/COMMENTS: _____

Is each Customer Tool properly tagged and numbered? Yes No n/a

Organization Authorized Signature Frank Meng Date 28-Jan-19
 Print Name Frank Meng Phone No. +86-22-25291088-6900 Fax No. +86-22-25290296
 Title Sr. Quality Mgr E-mail Frank.Meng@vishay.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

Part Warrant Disposition: Approved Rejected Other _____
 Customer Signature _____ Date _____
 Print Name _____ Customer Tracking Number (optional) _____



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Part Number List

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
1.5SMC100AHE3/57T	1.5SMC100AHE3_A/H	1.5SMC150AHM3/H	1.5SMC150AHM3_A/H	1.5SMC20CAHE3/57T	1.5SMC20CAHE3_A/H
1.5SMC100AHE3/9AT	1.5SMC100AHE3_A/I	1.5SMC150AHM3/I	1.5SMC150AHM3_A/I	1.5SMC20CAHE3/9AT	1.5SMC20CAHE3_A/I
1.5SMC100AHM3/H	1.5SMC100AHM3_A/H	1.5SMC150CAHE3/57T	1.5SMC150CAHE3_A/H	1.5SMC20CAHM3/H	1.5SMC20CAHM3_A/H
1.5SMC100AHM3/I	1.5SMC100AHM3_A/I	1.5SMC150CAHE3/9AT	1.5SMC150CAHE3_A/I	1.5SMC20CAHM3/I	1.5SMC20CAHM3_A/I
1.5SMC100CAHE3/57T	1.5SMC100CAHE3_A/H	1.5SMC150CAHM3/H	1.5SMC150CAHM3_A/H	1.5SMC220AHE3/57T	1.5SMC220AHE3_A/H
1.5SMC100CAHE3/9AT	1.5SMC100CAHE3_A/I	1.5SMC150CAHM3/I	1.5SMC150CAHM3_A/I	1.5SMC220AHE3/9AT	1.5SMC220AHE3_A/I
1.5SMC100CAHM3/H	1.5SMC100CAHM3_A/H	1.5SMC15AHE3/57T	1.5SMC15AHE3_A/H	1.5SMC220AHM3/H	1.5SMC220AHM3_A/H
1.5SMC100CAHM3/I	1.5SMC100CAHM3_A/I	1.5SMC15AHE3/9AT	1.5SMC15AHE3_A/I	1.5SMC220AHM3/I	1.5SMC220AHM3_A/I
1.5SMC10AHE3/57T	1.5SMC10AHE3_A/H	1.5SMC15AHM3/H	1.5SMC15AHM3_A/H	1.5SMC220CAHE3/57T	1.5SMC220CAHE3_A/H
1.5SMC10AHE3/9AT	1.5SMC10AHE3_A/I	1.5SMC15AHM3/I	1.5SMC15AHM3_A/I	1.5SMC220CAHE3/9AT	1.5SMC220CAHE3_A/I
1.5SMC10AHM3/H	1.5SMC10AHM3_A/H	1.5SMC15CAHE3/57T	1.5SMC15CAHE3_A/H	1.5SMC220CAHM3/H	1.5SMC220CAHM3_A/H
1.5SMC10AHM3/I	1.5SMC10AHM3_A/I	1.5SMC15CAHE3/9AT	1.5SMC15CAHE3_A/I	1.5SMC220CAHM3/I	1.5SMC220CAHM3_A/I
1.5SMC10CAHE3/57T	1.5SMC10CAHE3_A/H	1.5SMC15CAHM3/H	1.5SMC15CAHM3_A/H	1.5SMC22AHE3/57T	1.5SMC22AHE3_A/H
1.5SMC10CAHE3/9AT	1.5SMC10CAHE3_A/I	1.5SMC15CAHM3/I	1.5SMC15CAHM3_A/I	1.5SMC22AHE3/9AT	1.5SMC22AHE3_A/I
1.5SMC10CAHM3/H	1.5SMC10CAHM3_A/H	1.5SMC160AHE3/57T	1.5SMC160AHE3_A/H	1.5SMC22AHM3/H	1.5SMC22AHM3_A/H
1.5SMC10CAHM3/I	1.5SMC10CAHM3_A/I	1.5SMC160AHE3/9AT	1.5SMC160AHE3_A/I	1.5SMC22AHM3/I	1.5SMC22AHM3_A/I
1.5SMC110AHE3/57T	1.5SMC110AHE3_A/H	1.5SMC160AHM3/H	1.5SMC160AHM3_A/H	1.5SMC22CAHE3/57T	1.5SMC22CAHE3_A/H
1.5SMC110AHE3/9AT	1.5SMC110AHE3_A/I	1.5SMC160AHM3/I	1.5SMC160AHM3_A/I	1.5SMC22CAHE3/9AT	1.5SMC22CAHE3_A/I
1.5SMC110AHM3/H	1.5SMC110AHM3_A/H	1.5SMC160CAHE3/57T	1.5SMC160CAHE3_A/H	1.5SMC22CAHM3/H	1.5SMC22CAHM3_A/H
1.5SMC110AHM3/I	1.5SMC110AHM3_A/I	1.5SMC160CAHE3/9AT	1.5SMC160CAHE3_A/I	1.5SMC22CAHM3/I	1.5SMC22CAHM3_A/I
1.5SMC110CAHE3/57T	1.5SMC110CAHE3_A/H	1.5SMC160CAHM3/H	1.5SMC160CAHM3_A/H	1.5SMC24AHE3/57T	1.5SMC24AHE3_A/H
1.5SMC110CAHE3/9AT	1.5SMC110CAHE3_A/I	1.5SMC160CAHM3/I	1.5SMC160CAHM3_A/I	1.5SMC24AHE3/9AT	1.5SMC24AHE3_A/I
1.5SMC110CAHM3/H	1.5SMC110CAHM3_A/H	1.5SMC16AHE3/57T	1.5SMC16AHE3_A/H	1.5SMC24AHM3/H	1.5SMC24AHM3_A/H
1.5SMC110CAHM3/I	1.5SMC110CAHM3_A/I	1.5SMC16AHE3/9AT	1.5SMC16AHE3_A/I	1.5SMC24AHM3/I	1.5SMC24AHM3_A/I
1.5SMC11AHE3/57T	1.5SMC11AHE3_A/H	1.5SMC16AHM3/H	1.5SMC16AHM3_A/H	1.5SMC24CAHE3/57T	1.5SMC24CAHE3_A/H
1.5SMC11AHE3/9AT	1.5SMC11AHE3_A/I	1.5SMC16AHM3/I	1.5SMC16AHM3_A/I	1.5SMC24CAHE3/9AT	1.5SMC24CAHE3_A/I
1.5SMC11AHM3/H	1.5SMC11AHM3_A/H	1.5SMC16CAHE3/57T	1.5SMC16CAHE3_A/H	1.5SMC24CAHM3/H	1.5SMC24CAHM3_A/H
1.5SMC11AHM3/I	1.5SMC11AHM3_A/I	1.5SMC16CAHE3/9AT	1.5SMC16CAHE3_A/I	1.5SMC24CAHM3/I	1.5SMC24CAHM3_A/I
1.5SMC11CAHE3/57T	1.5SMC11CAHE3_A/H	1.5SMC16CAHM3/H	1.5SMC16CAHM3_A/H	1.5SMC250AHM3_A/H	1.5SMC250AHM3_B/H
1.5SMC11CAHE3/9AT	1.5SMC11CAHE3_A/I	1.5SMC16CAHM3/I	1.5SMC16CAHM3_A/I	1.5SMC250AHM3_A/I	1.5SMC250AHM3_B/I
1.5SMC11CAHM3/H	1.5SMC11CAHM3_A/H	1.5SMC170AHE3/57T	1.5SMC170AHE3_A/H	1.5SMC27AHE3/57T	1.5SMC27AHE3_A/H
1.5SMC11CAHM3/I	1.5SMC11CAHM3_A/I	1.5SMC170AHE3/9AT	1.5SMC170AHE3_A/I	1.5SMC27AHE3/9AT	1.5SMC27AHE3_A/I
1.5SMC120AHE3/57T	1.5SMC120AHE3_A/H	1.5SMC170AHM3/H	1.5SMC170AHM3_A/H	1.5SMC27AHM3/H	1.5SMC27AHM3_A/H
1.5SMC120AHE3/9AT	1.5SMC120AHE3_A/I	1.5SMC170AHM3/I	1.5SMC170AHM3_A/I	1.5SMC27AHM3/I	1.5SMC27AHM3_A/I
1.5SMC120AHM3/H	1.5SMC120AHM3_A/H	1.5SMC170CAHE3/57T	1.5SMC170CAHE3_A/H	1.5SMC27CAHE3/57T	1.5SMC27CAHE3_A/H
1.5SMC120AHM3/I	1.5SMC120AHM3_A/I	1.5SMC170CAHE3/9AT	1.5SMC170CAHE3_A/I	1.5SMC27CAHE3/9AT	1.5SMC27CAHE3_A/I
1.5SMC120CAHE3/57T	1.5SMC120CAHE3_A/H	1.5SMC170CAHM3/H	1.5SMC170CAHM3_A/H	1.5SMC27CAHM3/H	1.5SMC27CAHM3_A/H
1.5SMC120CAHE3/9AT	1.5SMC120CAHE3_A/I	1.5SMC170CAHM3/I	1.5SMC170CAHM3_A/I	1.5SMC27CAHM3/I	1.5SMC27CAHM3_A/I
1.5SMC120CAHM3/H	1.5SMC120CAHM3_A/H	1.5SMC180AHE3/57T	1.5SMC180AHE3_A/H	1.5SMC300AHM3_A/H	1.5SMC300AHM3_B/H
1.5SMC120CAHM3/I	1.5SMC120CAHM3_A/I	1.5SMC180AHE3/9AT	1.5SMC180AHE3_A/I	1.5SMC300AHM3_A/I	1.5SMC300AHM3_B/I
1.5SMC12AHE3/57T	1.5SMC12AHE3_A/H	1.5SMC180AHM3/H	1.5SMC180AHM3_A/H	1.5SMC30AHE3/57T	1.5SMC30AHE3_A/H
1.5SMC12AHE3/9AT	1.5SMC12AHE3_A/I	1.5SMC180AHM3/I	1.5SMC180AHM3_A/I	1.5SMC30AHE3/9AT	1.5SMC30AHE3_A/I
1.5SMC12AHM3/H	1.5SMC12AHM3_A/H	1.5SMC180CAHE3/57T	1.5SMC180CAHE3_A/H	1.5SMC30AHM3/H	1.5SMC30AHM3_A/H
1.5SMC12AHM3/I	1.5SMC12AHM3_A/I	1.5SMC180CAHE3/9AT	1.5SMC180CAHE3_A/I	1.5SMC30AHM3/I	1.5SMC30AHM3_A/I
1.5SMC12CAHE3/57T	1.5SMC12CAHE3_A/H	1.5SMC180CAHM3/H	1.5SMC180CAHM3_A/H	1.5SMC30CAHE3/57T	1.5SMC30CAHE3_A/H
1.5SMC12CAHE3/9AT	1.5SMC12CAHE3_A/I	1.5SMC180CAHM3/I	1.5SMC180CAHM3_A/I	1.5SMC30CAHE3/9AT	1.5SMC30CAHE3_A/I
1.5SMC12CAHM3/H	1.5SMC12CAHM3_A/H	1.5SMC18AHE3/57T	1.5SMC18AHE3_A/H	1.5SMC30CAHM3/H	1.5SMC30CAHM3_A/H
1.5SMC12CAHM3/I	1.5SMC12CAHM3_A/I	1.5SMC18AHE3/9AT	1.5SMC18AHE3_A/I	1.5SMC30CAHM3/I	1.5SMC30CAHM3_A/I
1.5SMC130AHE3/57T	1.5SMC130AHE3_A/H	1.5SMC18AHM3/H	1.5SMC18AHM3_A/H	1.5SMC33AHE3/57T	1.5SMC33AHE3_A/H
1.5SMC130AHE3/9AT	1.5SMC130AHE3_A/I	1.5SMC18AHM3/I	1.5SMC18AHM3_A/I	1.5SMC33AHE3/9AT	1.5SMC33AHE3_A/I
1.5SMC130AHM3/H	1.5SMC130AHM3_A/H	1.5SMC18CAHE3/57T	1.5SMC18CAHE3_A/H	1.5SMC33AHM3/H	1.5SMC33AHM3_A/H
1.5SMC130AHM3/I	1.5SMC130AHM3_A/I	1.5SMC18CAHE3/9AT	1.5SMC18CAHE3_A/I	1.5SMC33AHM3/I	1.5SMC33AHM3_A/I
1.5SMC130CAHE3/57T	1.5SMC130CAHE3_A/H	1.5SMC18CAHM3/H	1.5SMC18CAHM3_A/H	1.5SMC33CAHE3/57T	1.5SMC33CAHE3_A/H
1.5SMC130CAHE3/9AT	1.5SMC130CAHE3_A/I	1.5SMC18CAHM3/I	1.5SMC18CAHM3_A/I	1.5SMC33CAHE3/9AT	1.5SMC33CAHE3_A/I
1.5SMC130CAHM3/H	1.5SMC130CAHM3_A/H	1.5SMC200AHE3/57T	1.5SMC200AHE3_A/H	1.5SMC33CAHM3/H	1.5SMC33CAHM3_A/H
1.5SMC130CAHM3/I	1.5SMC130CAHM3_A/I	1.5SMC200AHE3/9AT	1.5SMC200AHE3_A/I	1.5SMC33CAHM3/I	1.5SMC33CAHM3_A/I
1.5SMC13AHE3/57T	1.5SMC13AHE3_A/H	1.5SMC200AHM3/H	1.5SMC200AHM3_A/H	1.5SMC350AHM3_A/H	1.5SMC350AHM3_B/H
1.5SMC13AHE3/9AT	1.5SMC13AHE3_A/I	1.5SMC200AHM3/I	1.5SMC200AHM3_A/I	1.5SMC350AHM3_A/I	1.5SMC350AHM3_B/I
1.5SMC13AHM3/H	1.5SMC13AHM3_A/H	1.5SMC200CAHE3/57T	1.5SMC200CAHE3_A/H	1.5SMC36AHE3/57T	1.5SMC36AHE3_A/H
1.5SMC13AHM3/I	1.5SMC13AHM3_A/I	1.5SMC200CAHE3/9AT	1.5SMC200CAHE3_A/I	1.5SMC36AHE3/9AT	1.5SMC36AHE3_A/I
1.5SMC13CAHE3/57T	1.5SMC13CAHE3_A/H	1.5SMC200CAHM3/H	1.5SMC200CAHM3_A/H	1.5SMC36AHM3/H	1.5SMC36AHM3_A/H
1.5SMC13CAHE3/9AT	1.5SMC13CAHE3_A/I	1.5SMC200CAHM3/I	1.5SMC200CAHM3_A/I	1.5SMC36AHM3/I	1.5SMC36AHM3_A/I
1.5SMC13CAHM3/H	1.5SMC13CAHM3_A/H	1.5SMC20AHE3/57T	1.5SMC20AHE3_A/H	1.5SMC36CAHE3/57T	1.5SMC36CAHE3_A/H
1.5SMC13CAHM3/I	1.5SMC13CAHM3_A/I	1.5SMC20AHE3/9AT	1.5SMC20AHE3_A/I	1.5SMC36CAHE3/9AT	1.5SMC36CAHE3_A/I
1.5SMC150AHE3/57T	1.5SMC150AHE3_A/H	1.5SMC20AHM3/H	1.5SMC20AHM3_A/H	1.5SMC36CAHM3/H	1.5SMC36CAHM3_A/H
1.5SMC150AHE3/9AT	1.5SMC150AHE3_A/I	1.5SMC20AHM3/I	1.5SMC20AHM3_A/I	1.5SMC36CAHM3/I	1.5SMC36CAHM3_A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
1.5SMC39AHE3/57T	1.5SMC39AHE3_A/H	1.5SMC68AHM3/H	1.5SMC68AHM3_A/H	SM15T10CAHM3/H	SM15T10CAHM3_A/H
1.5SMC39AHE3/9AT	1.5SMC39AHE3_A/I	1.5SMC68AHM3/I	1.5SMC68AHM3_A/I	SM15T10CAHM3/I	SM15T10CAHM3_A/I
1.5SMC39AHM3/H	1.5SMC39AHM3_A/H	1.5SMC68CAHE3/57T	1.5SMC68CAHE3_A/H	SM15T12AHE3/57T	SM15T12AHE3_A/H
1.5SMC39AHM3/I	1.5SMC39AHM3_A/I	1.5SMC68CAHE3/9AT	1.5SMC68CAHE3_A/I	SM15T12AHE3/9AT	SM15T12AHE3_A/I
1.5SMC39CAHE3/57T	1.5SMC39CAHE3_A/H	1.5SMC68CAHM3/H	1.5SMC68CAHM3_A/H	SM15T12AHM3/H	SM15T12AHM3_A/H
1.5SMC39CAHE3/9AT	1.5SMC39CAHE3_A/I	1.5SMC68CAHM3/I	1.5SMC68CAHM3_A/I	SM15T12AHM3/I	SM15T12AHM3_A/I
1.5SMC39CAHM3/H	1.5SMC39CAHM3_A/H	1.5SMC7.5AHE3/57T	1.5SMC7.5AHE3_A/H	SM15T12CAHE3/57T	SM15T12CAHE3_A/H
1.5SMC39CAHM3/I	1.5SMC39CAHM3_A/I	1.5SMC7.5AHE3/9AT	1.5SMC7.5AHE3_A/I	SM15T12CAHE3/9AT	SM15T12CAHE3_A/I
1.5SMC400AHM3_A/H	1.5SMC400AHM3_B/H	1.5SMC7.5AHM3/H	1.5SMC7.5AHM3_A/H	SM15T12CAHM3/H	SM15T12CAHM3_A/H
1.5SMC400AHM3_A/I	1.5SMC400AHM3_B/I	1.5SMC7.5AHM3/I	1.5SMC7.5AHM3_A/I	SM15T12CAHM3/I	SM15T12CAHM3_A/I
1.5SMC43AHE3/57T	1.5SMC43AHE3_A/H	1.5SMC7.5CAHE3/57T	1.5SMC7.5CAHE3_A/H	SM15T150AHE3/57T	SM15T150AHE3_A/H
1.5SMC43AHE3/9AT	1.5SMC43AHE3_A/I	1.5SMC7.5CAHE3/9AT	1.5SMC7.5CAHE3_A/I	SM15T150AHE3/9AT	SM15T150AHE3_A/I
1.5SMC43AHM3/H	1.5SMC43AHM3_A/H	1.5SMC7.5CAHM3/H	1.5SMC7.5CAHM3_A/H	SM15T150AHM3/H	SM15T150AHM3_A/H
1.5SMC43AHM3/I	1.5SMC43AHM3_A/I	1.5SMC7.5CAHM3/I	1.5SMC7.5CAHM3_A/I	SM15T150AHM3/I	SM15T150AHM3_A/I
1.5SMC43CAHE3/57T	1.5SMC43CAHE3_A/H	1.5SMC75AHE3/57T	1.5SMC75AHE3_A/H	SM15T150CAHE3/57T	SM15T150CAHE3_A/H
1.5SMC43CAHE3/9AT	1.5SMC43CAHE3_A/I	1.5SMC75AHE3/9AT	1.5SMC75AHE3_A/I	SM15T150CAHE3/9AT	SM15T150CAHE3_A/I
1.5SMC43CAHM3/H	1.5SMC43CAHM3_A/H	1.5SMC75AHM3/H	1.5SMC75AHM3_A/H	SM15T150CAHM3/H	SM15T150CAHM3_A/H
1.5SMC43CAHM3/I	1.5SMC43CAHM3_A/I	1.5SMC75AHM3/I	1.5SMC75AHM3_A/I	SM15T150CAHM3/I	SM15T150CAHM3_A/I
1.5SMC440AHM3_A/H	1.5SMC440AHM3_B/H	1.5SMC75CAHE3/57T	1.5SMC75CAHE3_A/H	SM15T15AHE3/57T	SM15T15AHE3_A/H
1.5SMC440AHM3_A/I	1.5SMC440AHM3_B/I	1.5SMC75CAHE3/9AT	1.5SMC75CAHE3_A/I	SM15T15AHE3/9AT	SM15T15AHE3_A/I
1.5SMC47AHE3/57T	1.5SMC47AHE3_A/H	1.5SMC75CAHM3/H	1.5SMC75CAHM3_A/H	SM15T15AHM3/H	SM15T15AHM3_A/H
1.5SMC47AHE3/9AT	1.5SMC47AHE3_A/I	1.5SMC75CAHM3/I	1.5SMC75CAHM3_A/I	SM15T15AHM3/I	SM15T15AHM3_A/I
1.5SMC47AHM3/H	1.5SMC47AHM3_A/H	1.5SMC8.2AHE3/57T	1.5SMC8.2AHE3_A/H	SM15T15CAHE3/57T	SM15T15CAHE3_A/H
1.5SMC47AHM3/I	1.5SMC47AHM3_A/I	1.5SMC8.2AHE3/9AT	1.5SMC8.2AHE3_A/I	SM15T15CAHE3/9AT	SM15T15CAHE3_A/I
1.5SMC47CAHE3/57T	1.5SMC47CAHE3_A/H	1.5SMC8.2AHM3/H	1.5SMC8.2AHM3_A/H	SM15T15CAHM3/H	SM15T15CAHM3_A/H
1.5SMC47CAHE3/9AT	1.5SMC47CAHE3_A/I	1.5SMC8.2AHM3/I	1.5SMC8.2AHM3_A/I	SM15T15CAHM3/I	SM15T15CAHM3_A/I
1.5SMC47CAHM3/H	1.5SMC47CAHM3_A/H	1.5SMC8.2CAHE3/57T	1.5SMC8.2CAHE3_A/H	SM15T18AHE3/57T	SM15T18AHE3_A/H
1.5SMC47CAHM3/I	1.5SMC47CAHM3_A/I	1.5SMC8.2CAHE3/9AT	1.5SMC8.2CAHE3_A/I	SM15T18AHE3/9AT	SM15T18AHE3_A/I
1.5SMC480AHM3_A/H	1.5SMC480AHM3_B/H	1.5SMC8.2CAHM3/H	1.5SMC8.2CAHM3_A/H	SM15T18AHM3/H	SM15T18AHM3_A/H
1.5SMC480AHM3_A/I	1.5SMC480AHM3_B/I	1.5SMC8.2CAHM3/I	1.5SMC8.2CAHM3_A/I	SM15T18AHM3/I	SM15T18AHM3_A/I
1.5SMC510AHM3_A/H	1.5SMC510AHM3_B/H	1.5SMC82AHE3/57T	1.5SMC82AHE3_A/H	SM15T18CAHE3/57T	SM15T18CAHE3_A/H
1.5SMC510AHM3_A/I	1.5SMC510AHM3_B/I	1.5SMC82AHE3/9AT	1.5SMC82AHE3_A/I	SM15T18CAHE3/9AT	SM15T18CAHE3_A/I
1.5SMC51AHE3/57T	1.5SMC51AHE3_A/H	1.5SMC82AHM3/H	1.5SMC82AHM3_A/H	SM15T18CAHM3/H	SM15T18CAHM3_A/H
1.5SMC51AHE3/9AT	1.5SMC51AHE3_A/I	1.5SMC82AHM3/I	1.5SMC82AHM3_A/I	SM15T18CAHM3/I	SM15T18CAHM3_A/I
1.5SMC51AHM3/H	1.5SMC51AHM3_A/H	1.5SMC82CAHE3/57T	1.5SMC82CAHE3_A/H	SM15T200AHE3/57T	SM15T200AHE3_A/H
1.5SMC51AHM3/I	1.5SMC51AHM3_A/I	1.5SMC82CAHE3/9AT	1.5SMC82CAHE3_A/I	SM15T200AHE3/9AT	SM15T200AHE3_A/I
1.5SMC51CAHE3/57T	1.5SMC51CAHE3_A/H	1.5SMC82CAHM3/H	1.5SMC82CAHM3_A/H	SM15T200AHM3/H	SM15T200AHM3_A/H
1.5SMC51CAHE3/9AT	1.5SMC51CAHE3_A/I	1.5SMC82CAHM3/I	1.5SMC82CAHM3_A/I	SM15T200AHM3/I	SM15T200AHM3_A/I
1.5SMC51CAHM3/H	1.5SMC51CAHM3_A/H	1.5SMC9.1AHE3/57T	1.5SMC9.1AHE3_A/H	SM15T200CAHE3/57T	SM15T200CAHE3_A/H
1.5SMC51CAHM3/I	1.5SMC51CAHM3_A/I	1.5SMC9.1AHE3/9AT	1.5SMC9.1AHE3_A/I	SM15T200CAHE3/9AT	SM15T200CAHE3_A/I
1.5SMC540AHM3_A/H	1.5SMC540AHM3_B/H	1.5SMC9.1AHM3/H	1.5SMC9.1AHM3_A/H	SM15T200CAHM3/H	SM15T200CAHM3_A/H
1.5SMC540AHM3_A/I	1.5SMC540AHM3_B/I	1.5SMC9.1AHM3/I	1.5SMC9.1AHM3_A/I	SM15T200CAHM3/I	SM15T200CAHM3_A/I
1.5SMC56AHE3/57T	1.5SMC56AHE3_A/H	1.5SMC9.1CAHE3/57T	1.5SMC9.1CAHE3_A/H	SM15T220AHE3/57T	SM15T220AHE3_A/H
1.5SMC56AHE3/9AT	1.5SMC56AHE3_A/I	1.5SMC9.1CAHE3/9AT	1.5SMC9.1CAHE3_A/I	SM15T220AHE3/9AT	SM15T220AHE3_A/I
1.5SMC56AHM3/H	1.5SMC56AHM3_A/H	1.5SMC9.1CAHM3/H	1.5SMC9.1CAHM3_A/H	SM15T220AHM3/H	SM15T220AHM3_A/H
1.5SMC56AHM3/I	1.5SMC56AHM3_A/I	1.5SMC9.1CAHM3/I	1.5SMC9.1CAHM3_A/I	SM15T220AHM3/I	SM15T220AHM3_A/I
1.5SMC56CAHE3/57T	1.5SMC56CAHE3_A/H	1.5SMC91AHE3/57T	1.5SMC91AHE3_A/H	SM15T220CAHE3/57T	SM15T220CAHE3_A/H
1.5SMC56CAHE3/9AT	1.5SMC56CAHE3_A/I	1.5SMC91AHE3/9AT	1.5SMC91AHE3_A/I	SM15T220CAHE3/9AT	SM15T220CAHE3_A/I
1.5SMC56CAHM3/H	1.5SMC56CAHM3_A/H	1.5SMC91AHM3/H	1.5SMC91AHM3_A/H	SM15T220CAHM3/H	SM15T220CAHM3_A/H
1.5SMC56CAHM3/I	1.5SMC56CAHM3_A/I	1.5SMC91AHM3/I	1.5SMC91AHM3_A/I	SM15T220CAHM3/I	SM15T220CAHM3_A/I
1.5SMC6.8AHE3/57T	1.5SMC6.8AHE3_A/H	1.5SMC91CAHE3/57T	1.5SMC91CAHE3_A/H	SM15T22AHE3/57T	SM15T22AHE3_A/H
1.5SMC6.8AHE3/9AT	1.5SMC6.8AHE3_A/I	1.5SMC91CAHE3/9AT	1.5SMC91CAHE3_A/I	SM15T22AHE3/9AT	SM15T22AHE3_A/I
1.5SMC6.8AHM3/H	1.5SMC6.8AHM3_A/H	1.5SMC91CAHM3/H	1.5SMC91CAHM3_A/H	SM15T22AHM3/H	SM15T22AHM3_A/H
1.5SMC6.8AHM3/I	1.5SMC6.8AHM3_A/I	1.5SMC91CAHM3/I	1.5SMC91CAHM3_A/I	SM15T22AHM3/I	SM15T22AHM3_A/I
1.5SMC6.8CAHE3/57T	1.5SMC6.8CAHE3_A/H	SM15T100AHE3/57T	SM15T100AHE3_A/H	SM15T22CAHE3/57T	SM15T22CAHE3_A/H
1.5SMC6.8CAHE3/9AT	1.5SMC6.8CAHE3_A/I	SM15T100AHE3/9AT	SM15T100AHE3_A/I	SM15T22CAHE3/9AT	SM15T22CAHE3_A/I
1.5SMC6.8CAHM3/H	1.5SMC6.8CAHM3_A/H	SM15T100AHM3/H	SM15T100AHM3_A/H	SM15T22CAHM3/H	SM15T22CAHM3_A/H
1.5SMC6.8CAHM3/I	1.5SMC6.8CAHM3_A/I	SM15T100AHM3/I	SM15T100AHM3_A/I	SM15T22CAHM3/I	SM15T22CAHM3_A/I
1.5SMC62AHE3/57T	1.5SMC62AHE3_A/H	SM15T100CAHE3/57T	SM15T100CAHE3_A/H	SM15T24AHE3/57T	SM15T24AHE3_A/H
1.5SMC62AHE3/9AT	1.5SMC62AHE3_A/I	SM15T100CAHE3/9AT	SM15T100CAHE3_A/I	SM15T24AHE3/9AT	SM15T24AHE3_A/I
1.5SMC62AHM3/H	1.5SMC62AHM3_A/H	SM15T100CAHM3/H	SM15T100CAHM3_A/H	SM15T24AHM3/H	SM15T24AHM3_A/H
1.5SMC62AHM3/I	1.5SMC62AHM3_A/I	SM15T100CAHM3/I	SM15T100CAHM3_A/I	SM15T24AHM3/I	SM15T24AHM3_A/I
1.5SMC62CAHE3/57T	1.5SMC62CAHE3_A/H	SM15T10AHE3/57T	SM15T10AHE3_A/H	SM15T24CAHE3/57T	SM15T24CAHE3_A/H
1.5SMC62CAHE3/9AT	1.5SMC62CAHE3_A/I	SM15T10AHE3/9AT	SM15T10AHE3_A/I	SM15T24CAHE3/9AT	SM15T24CAHE3_A/I
1.5SMC62CAHM3/H	1.5SMC62CAHM3_A/H	SM15T10AHM3/H	SM15T10AHM3_A/H	SM15T24CAHM3/H	SM15T24CAHM3_A/H
1.5SMC62CAHM3/I	1.5SMC62CAHM3_A/I	SM15T10AHM3/I	SM15T10AHM3_A/I	SM15T24CAHM3/I	SM15T24CAHM3_A/I
1.5SMC68AHE3/57T	1.5SMC68AHE3_A/H	SM15T10CAHE3/57T	SM15T10CAHE3_A/H	SM15T27AHE3/57T	SM15T27AHE3_A/H
1.5SMC68AHE3/9AT	1.5SMC68AHE3_A/I	SM15T10CAHE3/9AT	SM15T10CAHE3_A/I	SM15T27AHE3/9AT	SM15T27AHE3_A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SM15T27AHM3/H	SM15T27AHM3_A/H	SMCJ100CAHM3/H	SMCJ100CAHM3_A/H	SMCJ150AHM3/H	SMCJ150AHM3_A/H
SM15T27AHM3/I	SM15T27AHM3_A/I	SMCJ100CAHM3/I	SMCJ100CAHM3_A/I	SMCJ150AHM3/I	SMCJ150AHM3_A/I
SM15T27CAHE3/57T	SM15T27CAHE3_A/H	SMCJ10AHE3/57T	SMCJ10AHE3_A/H	SMCJ150CAHE3/57T	SMCJ150CAHE3_A/H
SM15T27CAHE3/9AT	SM15T27CAHE3_A/I	SMCJ10AHE3/9AT	SMCJ10AHE3_A/I	SMCJ150CAHE3/9AT	SMCJ150CAHE3_A/I
SM15T27CAHM3/H	SM15T27CAHM3_A/H	SMCJ10AHM3/H	SMCJ10AHM3_A/H	SMCJ150CAHM3/H	SMCJ150CAHM3_A/H
SM15T27CAHM3/I	SM15T27CAHM3_A/I	SMCJ10AHM3/I	SMCJ10AHM3_A/I	SMCJ150CAHM3/I	SMCJ150CAHM3_A/I
SM15T30AHE3/57T	SM15T30AHE3_A/H	SMCJ10CAHE3/57T	SMCJ10CAHE3_A/H	SMCJ15AHE3/57T	SMCJ15AHE3_A/H
SM15T30AHE3/9AT	SM15T30AHE3_A/I	SMCJ10CAHE3/9AT	SMCJ10CAHE3_A/I	SMCJ15AHE3/9AT	SMCJ15AHE3_A/I
SM15T30AHM3/H	SM15T30AHM3_A/H	SMCJ10CAHM3/H	SMCJ10CAHM3_A/H	SMCJ15AHM3/H	SMCJ15AHM3_A/H
SM15T30AHM3/I	SM15T30AHM3_A/I	SMCJ10CAHM3/I	SMCJ10CAHM3_A/I	SMCJ15AHM3/I	SMCJ15AHM3_A/I
SM15T30CAHE3/57T	SM15T30CAHE3_A/H	SMCJ110AHE3/57T	SMCJ110AHE3_A/H	SMCJ15CAHE3/57T	SMCJ15CAHE3_A/H
SM15T30CAHE3/9AT	SM15T30CAHE3_A/I	SMCJ110AHE3/9AT	SMCJ110AHE3_A/I	SMCJ15CAHE3/9AT	SMCJ15CAHE3_A/I
SM15T30CAHM3/H	SM15T30CAHM3_A/H	SMCJ110AHM3/H	SMCJ110AHM3_A/H	SMCJ15CAHM3/H	SMCJ15CAHM3_A/H
SM15T30CAHM3/I	SM15T30CAHM3_A/I	SMCJ110AHM3/I	SMCJ110AHM3_A/I	SMCJ15CAHM3/I	SMCJ15CAHM3_A/I
SM15T33AHE3/57T	SM15T33AHE3_A/H	SMCJ110CAHE3/57T	SMCJ110CAHE3_A/H	SMCJ160AHE3/57T	SMCJ160AHE3_A/H
SM15T33AHE3/9AT	SM15T33AHE3_A/I	SMCJ110CAHE3/9AT	SMCJ110CAHE3_A/I	SMCJ160AHE3/9AT	SMCJ160AHE3_A/I
SM15T33AHM3/H	SM15T33AHM3_A/H	SMCJ110CAHM3/H	SMCJ110CAHM3_A/H	SMCJ160AHM3/H	SMCJ160AHM3_A/H
SM15T33AHM3/I	SM15T33AHM3_A/I	SMCJ110CAHM3/I	SMCJ110CAHM3_A/I	SMCJ160AHM3/I	SMCJ160AHM3_A/I
SM15T33CAHE3/57T	SM15T33CAHE3_A/H	SMCJ11AHE3/57T	SMCJ11AHE3_A/H	SMCJ160CAHE3/57T	SMCJ160CAHE3_A/H
SM15T33CAHE3/9AT	SM15T33CAHE3_A/I	SMCJ11AHE3/9AT	SMCJ11AHE3_A/I	SMCJ160CAHE3/9AT	SMCJ160CAHE3_A/I
SM15T33CAHM3/H	SM15T33CAHM3_A/H	SMCJ11AHM3/H	SMCJ11AHM3_A/H	SMCJ160CAHM3/H	SMCJ160CAHM3_A/H
SM15T33CAHM3/I	SM15T33CAHM3_A/I	SMCJ11AHM3/I	SMCJ11AHM3_A/I	SMCJ160CAHM3/I	SMCJ160CAHM3_A/I
SM15T36AHE3/57T	SM15T36AHE3_A/H	SMCJ11CAHE3/57T	SMCJ11CAHE3_A/H	SMCJ16AHE3/57T	SMCJ16AHE3_A/H
SM15T36AHE3/9AT	SM15T36AHE3_A/I	SMCJ11CAHE3/9AT	SMCJ11CAHE3_A/I	SMCJ16AHE3/9AT	SMCJ16AHE3_A/I
SM15T36AHM3/H	SM15T36AHM3_A/H	SMCJ11CAHM3/H	SMCJ11CAHM3_A/H	SMCJ16AHM3/H	SMCJ16AHM3_A/H
SM15T36AHM3/I	SM15T36AHM3_A/I	SMCJ11CAHM3/I	SMCJ11CAHM3_A/I	SMCJ16AHM3/I	SMCJ16AHM3_A/I
SM15T36CAHE3/57T	SM15T36CAHE3_A/H	SMCJ120AHE3/57T	SMCJ120AHE3_A/H	SMCJ16CAHE3/57T	SMCJ16CAHE3_A/H
SM15T36CAHE3/9AT	SM15T36CAHE3_A/I	SMCJ120AHE3/9AT	SMCJ120AHE3_A/I	SMCJ16CAHE3/9AT	SMCJ16CAHE3_A/I
SM15T36CAHM3/H	SM15T36CAHM3_A/H	SMCJ120AHM3/H	SMCJ120AHM3_A/H	SMCJ16CAHM3/H	SMCJ16CAHM3_A/H
SM15T36CAHM3/I	SM15T36CAHM3_A/I	SMCJ120AHM3/I	SMCJ120AHM3_A/I	SMCJ16CAHM3/I	SMCJ16CAHM3_A/I
SM15T39AHE3/57T	SM15T39AHE3_A/H	SMCJ120CAHE3/57T	SMCJ120CAHE3_A/H	SMCJ170AHE3/57T	SMCJ170AHE3_A/H
SM15T39AHE3/9AT	SM15T39AHE3_A/I	SMCJ120CAHE3/9AT	SMCJ120CAHE3_A/I	SMCJ170AHE3/9AT	SMCJ170AHE3_A/I
SM15T39AHM3/H	SM15T39AHM3_A/H	SMCJ120CAHM3/H	SMCJ120CAHM3_A/H	SMCJ170AHM3/H	SMCJ170AHM3_A/H
SM15T39AHM3/I	SM15T39AHM3_A/I	SMCJ120CAHM3/I	SMCJ120CAHM3_A/I	SMCJ170AHM3/I	SMCJ170AHM3_A/I
SM15T39CAHE3/57T	SM15T39CAHE3_A/H	SMCJ12AHE3/57T	SMCJ12AHE3_A/H	SMCJ170CAHE3/57T	SMCJ170CAHE3_A/H
SM15T39CAHE3/9AT	SM15T39CAHE3_A/I	SMCJ12AHE3/9AT	SMCJ12AHE3_A/I	SMCJ170CAHE3/9AT	SMCJ170CAHE3_A/I
SM15T39CAHM3/H	SM15T39CAHM3_A/H	SMCJ12AHM3/H	SMCJ12AHM3_A/H	SMCJ170CAHM3/H	SMCJ170CAHM3_A/H
SM15T39CAHM3/I	SM15T39CAHM3_A/I	SMCJ12AHM3/I	SMCJ12AHM3_A/I	SMCJ170CAHM3/I	SMCJ170CAHM3_A/I
SM15T68AHE3/57T	SM15T68AHE3_A/H	SMCJ12CAHE3/57T	SMCJ12CAHE3_A/H	SMCJ17AHE3/57T	SMCJ17AHE3_A/H
SM15T68AHE3/9AT	SM15T68AHE3_A/I	SMCJ12CAHE3/9AT	SMCJ12CAHE3_A/I	SMCJ17AHE3/9AT	SMCJ17AHE3_A/I
SM15T68AHM3/H	SM15T68AHM3_A/H	SMCJ12CAHM3/H	SMCJ12CAHM3_A/H	SMCJ17AHM3/H	SMCJ17AHM3_A/H
SM15T68AHM3/I	SM15T68AHM3_A/I	SMCJ12CAHM3/I	SMCJ12CAHM3_A/I	SMCJ17AHM3/I	SMCJ17AHM3_A/I
SM15T68CAHE3/57T	SM15T68CAHE3_A/H	SMCJ130AHE3/57T	SMCJ130AHE3_A/H	SMCJ17CAHE3/57T	SMCJ17CAHE3_A/H
SM15T68CAHE3/9AT	SM15T68CAHE3_A/I	SMCJ130AHE3/9AT	SMCJ130AHE3_A/I	SMCJ17CAHE3/9AT	SMCJ17CAHE3_A/I
SM15T68CAHM3/H	SM15T68CAHM3_A/H	SMCJ130AHM3/H	SMCJ130AHM3_A/H	SMCJ17CAHM3/H	SMCJ17CAHM3_A/H
SM15T68CAHM3/I	SM15T68CAHM3_A/I	SMCJ130AHM3/I	SMCJ130AHM3_A/I	SMCJ17CAHM3/I	SMCJ17CAHM3_A/I
SM15T6V8AHE3/57T	SM15T6V8AHE3_A/H	SMCJ130CAHE3/57T	SMCJ130CAHE3_A/H	SMCJ188AHE3/57T	SMCJ188AHE3_A/H
SM15T6V8AHE3/9AT	SM15T6V8AHE3_A/I	SMCJ130CAHE3/9AT	SMCJ130CAHE3_A/I	SMCJ188AHE3/9AT	SMCJ188AHE3_A/I
SM15T6V8AHM3/H	SM15T6V8AHM3_A/H	SMCJ130CAHM3/H	SMCJ130CAHM3_A/H	SMCJ188AHM3/H	SMCJ188AHM3_A/H
SM15T6V8AHM3/I	SM15T6V8AHM3_A/I	SMCJ130CAHM3/I	SMCJ130CAHM3_A/I	SMCJ188AHM3/I	SMCJ188AHM3_A/I
SM15T6V8CAHE3/57T	SM15T6V8CAHE3_A/H	SMCJ13AHE3/57T	SMCJ13AHE3_A/H	SMCJ188CAHE3/57T	SMCJ188CAHE3_A/H
SM15T6V8CAHE3/9AT	SM15T6V8CAHE3_A/I	SMCJ13AHE3/9AT	SMCJ13AHE3_A/I	SMCJ188CAHE3/9AT	SMCJ188CAHE3_A/I
SM15T6V8CAHM3/H	SM15T6V8CAHM3_A/H	SMCJ13AHM3/H	SMCJ13AHM3_A/H	SMCJ188CAHM3/H	SMCJ188CAHM3_A/H
SM15T6V8CAHM3/I	SM15T6V8CAHM3_A/I	SMCJ13AHM3/I	SMCJ13AHM3_A/I	SMCJ188CAHM3/I	SMCJ188CAHM3_A/I
SM15T7V5AHE3/57T	SM15T7V5AHE3_A/H	SMCJ13CAHE3/57T	SMCJ13CAHE3_A/H	SMCJ18AHE3/57T	SMCJ18AHE3_A/H
SM15T7V5AHE3/9AT	SM15T7V5AHE3_A/I	SMCJ13CAHE3/9AT	SMCJ13CAHE3_A/I	SMCJ18AHE3/9AT	SMCJ18AHE3_A/I
SM15T7V5AHM3/H	SM15T7V5AHM3_A/H	SMCJ13CAHM3/H	SMCJ13CAHM3_A/H	SMCJ18AHM3/H	SMCJ18AHM3_A/H
SM15T7V5AHM3/I	SM15T7V5AHM3_A/I	SMCJ13CAHM3/I	SMCJ13CAHM3_A/I	SMCJ18AHM3/I	SMCJ18AHM3_A/I
SM15T7V5CAHE3/57T	SM15T7V5CAHE3_A/H	SMCJ14AHE3/57T	SMCJ14AHE3_A/H	SMCJ18CAHE3/57T	SMCJ18CAHE3_A/H
SM15T7V5CAHE3/9AT	SM15T7V5CAHE3_A/I	SMCJ14AHE3/9AT	SMCJ14AHE3_A/I	SMCJ18CAHE3/9AT	SMCJ18CAHE3_A/I
SM15T7V5CAHM3/H	SM15T7V5CAHM3_A/H	SMCJ14AHM3/H	SMCJ14AHM3_A/H	SMCJ18CAHM3/H	SMCJ18CAHM3_A/H
SM15T7V5CAHM3/I	SM15T7V5CAHM3_A/I	SMCJ14AHM3/I	SMCJ14AHM3_A/I	SMCJ18CAHM3/I	SMCJ18CAHM3_A/I
SMCJ100AHE3/57T	SMCJ100AHE3_A/H	SMCJ14CAHE3/57T	SMCJ14CAHE3_A/H	SMCJ20AHE3/57T	SMCJ20AHE3_A/H
SMCJ100AHE3/9AT	SMCJ100AHE3_A/I	SMCJ14CAHE3/9AT	SMCJ14CAHE3_A/I	SMCJ20AHE3/9AT	SMCJ20AHE3_A/I
SMCJ100AHM3/H	SMCJ100AHM3_A/H	SMCJ14CAHM3/H	SMCJ14CAHM3_A/H	SMCJ20AHM3/H	SMCJ20AHM3_A/H
SMCJ100AHM3/I	SMCJ100AHM3_A/I	SMCJ14CAHM3/I	SMCJ14CAHM3_A/I	SMCJ20AHM3/I	SMCJ20AHM3_A/I
SMCJ100CAHE3/57T	SMCJ100CAHE3_A/H	SMCJ150AHE3/57T	SMCJ150AHE3_A/H	SMCJ20CAHE3/57T	SMCJ20CAHE3_A/H
SMCJ100CAHE3/9AT	SMCJ100CAHE3_A/I	SMCJ150AHE3/9AT	SMCJ150AHE3_A/I	SMCJ20CAHE3/9AT	SMCJ20CAHE3_A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMCJ20CAHM3/H	SMCJ20CAHM3 A/H	SMCJ40CAHM3/H	SMCJ40CAHM3 A/H	SMCJ6.5AHM3/H	SMCJ6.5AHM3 A/H
SMCJ20CAHM3/I	SMCJ20CAHM3 A/I	SMCJ40CAHM3/I	SMCJ40CAHM3 A/I	SMCJ6.5AHM3/I	SMCJ6.5AHM3 A/I
SMCJ22AHE3/57T	SMCJ22AHE3 A/H	SMCJ43AHE3/57T	SMCJ43AHE3 A/H	SMCJ6.5CAHE3/57T	SMCJ6.5CAHE3 A/H
SMCJ22AHE3/9AT	SMCJ22AHE3 A/I	SMCJ43AHE3/9AT	SMCJ43AHE3 A/I	SMCJ6.5CAHE3/9AT	SMCJ6.5CAHE3 A/I
SMCJ22AHM3/H	SMCJ22AHM3 A/H	SMCJ43AHM3/H	SMCJ43AHM3 A/H	SMCJ6.5CAHM3/H	SMCJ6.5CAHM3 A/H
SMCJ22AHM3/I	SMCJ22AHM3 A/I	SMCJ43AHM3/I	SMCJ43AHM3 A/I	SMCJ6.5CAHM3/I	SMCJ6.5CAHM3 A/I
SMCJ22CAHE3/57T	SMCJ22CAHE3 A/H	SMCJ43CAHE3/57T	SMCJ43CAHE3 A/H	SMCJ60AHE3/57T	SMCJ60AHE3 A/H
SMCJ22CAHE3/9AT	SMCJ22CAHE3 A/I	SMCJ43CAHE3/9AT	SMCJ43CAHE3 A/I	SMCJ60AHE3/9AT	SMCJ60AHE3 A/I
SMCJ22CAHM3/H	SMCJ22CAHM3 A/H	SMCJ43CAHM3/H	SMCJ43CAHM3 A/H	SMCJ60AHM3/H	SMCJ60AHM3 A/H
SMCJ22CAHM3/I	SMCJ22CAHM3 A/I	SMCJ43CAHM3/I	SMCJ43CAHM3 A/I	SMCJ60AHM3/I	SMCJ60AHM3 A/I
SMCJ24AHE3/57T	SMCJ24AHE3 A/H	SMCJ45AHE3/57T	SMCJ45AHE3 A/H	SMCJ60CAHE3/57T	SMCJ60CAHE3 A/H
SMCJ24AHE3/9AT	SMCJ24AHE3 A/I	SMCJ45AHE3/9AT	SMCJ45AHE3 A/I	SMCJ60CAHE3/9AT	SMCJ60CAHE3 A/I
SMCJ24AHM3/H	SMCJ24AHM3 A/H	SMCJ45AHM3/H	SMCJ45AHM3 A/H	SMCJ60CAHM3/H	SMCJ60CAHM3 A/H
SMCJ24AHM3/I	SMCJ24AHM3 A/I	SMCJ45AHM3/I	SMCJ45AHM3 A/I	SMCJ60CAHM3/I	SMCJ60CAHM3 A/I
SMCJ24CAHE3H/H	SMCJ24CAHE3H A/H	SMCJ45CAHE3/57T	SMCJ45CAHE3 A/H	SMCJ64AHE3/57T	SMCJ64AHE3 A/H
SMCJ24CAHE3/57T	SMCJ24CAHE3 A/H	SMCJ45CAHE3/9AT	SMCJ45CAHE3 A/I	SMCJ64AHE3/9AT	SMCJ64AHE3 A/I
SMCJ24CAHE3/9AT	SMCJ24CAHE3 A/I	SMCJ45CAHM3/H	SMCJ45CAHM3 A/H	SMCJ64AHM3/H	SMCJ64AHM3 A/H
SMCJ24CA002HE3/57T	SMCJ24CA002HE3 A/H	SMCJ45CAHM3/I	SMCJ45CAHM3 A/I	SMCJ64AHM3/I	SMCJ64AHM3 A/I
SMCJ24CAHM3/H	SMCJ24CAHM3 A/H	SMCJ48AHE3/57T	SMCJ48AHE3 A/H	SMCJ64CAHE3/57T	SMCJ64CAHE3 A/H
SMCJ24CAHM3/I	SMCJ24CAHM3 A/I	SMCJ48AHE3/9AT	SMCJ48AHE3 A/I	SMCJ64CAHE3/9AT	SMCJ64CAHE3 A/I
SMCJ26AHE3/57T	SMCJ26AHE3 A/H	SMCJ48AHM3/H	SMCJ48AHM3 A/H	SMCJ64CAHM3/H	SMCJ64CAHM3 A/H
SMCJ26AHE3/9AT	SMCJ26AHE3 A/I	SMCJ48AHM3/I	SMCJ48AHM3 A/I	SMCJ64CAHM3/I	SMCJ64CAHM3 A/I
SMCJ26AHM3/H	SMCJ26AHM3 A/H	SMCJ48CAHE3/57T	SMCJ48CAHE3 A/H	SMCJ7.0AHE3/57T	SMCJ7.0AHE3 A/H
SMCJ26AHM3/I	SMCJ26AHM3 A/I	SMCJ48CAHE3/9AT	SMCJ48CAHE3 A/I	SMCJ7.0AHE3/9AT	SMCJ7.0AHE3 A/I
SMCJ26CAHE3/57T	SMCJ26CAHE3 A/H	SMCJ48CAHM3/H	SMCJ48CAHM3 A/H	SMCJ7.0AHM3/H	SMCJ7.0AHM3 A/H
SMCJ26CAHE3/9AT	SMCJ26CAHE3 A/I	SMCJ48CAHM3/I	SMCJ48CAHM3 A/I	SMCJ7.0AHM3/I	SMCJ7.0AHM3 A/I
SMCJ26CAHM3/H	SMCJ26CAHM3 A/H	SMCJ5.0AHE3/57T	SMCJ5.0AHE3 A/H	SMCJ7.0CAHE3/57T	SMCJ7.0CAHE3 A/H
SMCJ26CAHM3/I	SMCJ26CAHM3 A/I	SMCJ5.0AHE3/9AT	SMCJ5.0AHE3 A/I	SMCJ7.0CAHE3/9AT	SMCJ7.0CAHE3 A/I
SMCJ28AHE3/57T	SMCJ28AHE3 A/H	SMCJ5.0AHM3/H	SMCJ5.0AHM3 A/H	SMCJ7.0CAHM3/H	SMCJ7.0CAHM3 A/H
SMCJ28AHE3/9AT	SMCJ28AHE3 A/I	SMCJ5.0AHM3/I	SMCJ5.0AHM3 A/I	SMCJ7.0CAHM3/I	SMCJ7.0CAHM3 A/I
SMCJ28AHM3/H	SMCJ28AHM3 A/H	SMCJ5.0CAHE3/57T	SMCJ5.0CAHE3 A/H	SMCJ7.5AHE3/57T	SMCJ7.5AHE3 A/H
SMCJ28AHM3/I	SMCJ28AHM3 A/I	SMCJ5.0CAHE3/9AT	SMCJ5.0CAHE3 A/I	SMCJ7.5AHE3/9AT	SMCJ7.5AHE3 A/I
SMCJ28CAHE3/57T	SMCJ28CAHE3 A/H	SMCJ5.0CAHM3/H	SMCJ5.0CAHM3 A/H	SMCJ7.5AHM3/H	SMCJ7.5AHM3 A/H
SMCJ28CAHE3/9AT	SMCJ28CAHE3 A/I	SMCJ5.0CAHM3/I	SMCJ5.0CAHM3 A/I	SMCJ7.5AHM3/I	SMCJ7.5AHM3 A/I
SMCJ28CAHM3/H	SMCJ28CAHM3 A/H	SMCJ51AHE3/57T	SMCJ51AHE3 A/H	SMCJ7.5CAHE3/57T	SMCJ7.5CAHE3 A/H
SMCJ28CAHM3/I	SMCJ28CAHM3 A/I	SMCJ51AHE3/9AT	SMCJ51AHE3 A/I	SMCJ7.5CAHE3/9AT	SMCJ7.5CAHE3 A/I
SMCJ30AHE3/57T	SMCJ30AHE3 A/H	SMCJ51AHM3/H	SMCJ51AHM3 A/H	SMCJ7.5CAHM3/H	SMCJ7.5CAHM3 A/H
SMCJ30AHE3/9AT	SMCJ30AHE3 A/I	SMCJ51AHM3/I	SMCJ51AHM3 A/I	SMCJ7.5CAHM3/I	SMCJ7.5CAHM3 A/I
SMCJ30AHM3/H	SMCJ30AHM3 A/H	SMCJ51CAHE3/57T	SMCJ51CAHE3 A/H	SMCJ70AHE3/57T	SMCJ70AHE3 A/H
SMCJ30AHM3/I	SMCJ30AHM3 A/I	SMCJ51CAHE3/9AT	SMCJ51CAHE3 A/I	SMCJ70AHE3/9AT	SMCJ70AHE3 A/I
SMCJ30CAHE3/57T	SMCJ30CAHE3 A/H	SMCJ51CAHM3/H	SMCJ51CAHM3 A/H	SMCJ70AHM3/H	SMCJ70AHM3 A/H
SMCJ30CAHE3/9AT	SMCJ30CAHE3 A/I	SMCJ51CAHM3/I	SMCJ51CAHM3 A/I	SMCJ70AHM3/I	SMCJ70AHM3 A/I
SMCJ30CAHM3/H	SMCJ30CAHM3 A/H	SMCJ54AHE3/57T	SMCJ54AHE3 A/H	SMCJ70CAHE3/57T	SMCJ70CAHE3 A/H
SMCJ30CAHM3/I	SMCJ30CAHM3 A/I	SMCJ54AHE3/9AT	SMCJ54AHE3 A/I	SMCJ70CAHE3/9AT	SMCJ70CAHE3 A/I
SMCJ33AHE3/57T	SMCJ33AHE3 A/H	SMCJ54AHM3/H	SMCJ54AHM3 A/H	SMCJ70CAHM3/H	SMCJ70CAHM3 A/H
SMCJ33AHE3/9AT	SMCJ33AHE3 A/I	SMCJ54AHM3/I	SMCJ54AHM3 A/I	SMCJ70CAHM3/I	SMCJ70CAHM3 A/I
SMCJ33AHM3/H	SMCJ33AHM3 A/H	SMCJ54CAHE3/57T	SMCJ54CAHE3 A/H	SMCJ75AHE3/57T	SMCJ75AHE3 A/H
SMCJ33AHM3/I	SMCJ33AHM3 A/I	SMCJ54CAHE3/9AT	SMCJ54CAHE3 A/I	SMCJ75AHE3/9AT	SMCJ75AHE3 A/I
SMCJ33CAHE3/57T	SMCJ33CAHE3 A/H	SMCJ54CAHM3/H	SMCJ54CAHM3 A/H	SMCJ75AHM3/H	SMCJ75AHM3 A/H
SMCJ33CAHE3/9AT	SMCJ33CAHE3 A/I	SMCJ54CAHM3/I	SMCJ54CAHM3 A/I	SMCJ75AHM3/I	SMCJ75AHM3 A/I
SMCJ33CAHM3/H	SMCJ33CAHM3 A/H	SMCJ58AHE3/57T	SMCJ58AHE3 A/H	SMCJ75CAHE3/57T	SMCJ75CAHE3 A/H
SMCJ33CAHM3/I	SMCJ33CAHM3 A/I	SMCJ58AHE3/9AT	SMCJ58AHE3 A/I	SMCJ75CAHE3/9AT	SMCJ75CAHE3 A/I
SMCJ36AHE3/57T	SMCJ36AHE3 A/H	SMCJ58AHM3/H	SMCJ58AHM3 A/H	SMCJ75CAHM3/H	SMCJ75CAHM3 A/H
SMCJ36AHE3/9AT	SMCJ36AHE3 A/I	SMCJ58AHM3/I	SMCJ58AHM3 A/I	SMCJ75CAHM3/I	SMCJ75CAHM3 A/I
SMCJ36AHM3/H	SMCJ36AHM3 A/H	SMCJ58CAHE3/57T	SMCJ58CAHE3 A/H	SMCJ78AHE3/57T	SMCJ78AHE3 A/H
SMCJ36AHM3/I	SMCJ36AHM3 A/I	SMCJ58CAHE3/9AT	SMCJ58CAHE3 A/I	SMCJ78AHE3/9AT	SMCJ78AHE3 A/I
SMCJ36CA001HE3/57T	SMCJ36CA001HE3 A/H	SMCJ58CAHM3/H	SMCJ58CAHM3 A/H	SMCJ78AHM3/H	SMCJ78AHM3 A/H
SMCJ36CA001HE3/9AT	SMCJ36CA001HE3 A/I	SMCJ58CAHM3/I	SMCJ58CAHM3 A/I	SMCJ78AHM3/I	SMCJ78AHM3 A/I
SMCJ36CAHE3/57T	SMCJ36CAHE3 A/H	SMCJ6.0AHE3/57T	SMCJ6.0AHE3 A/H	SMCJ78CAHE3/57T	SMCJ78CAHE3 A/H
SMCJ36CAHE3/9AT	SMCJ36CAHE3 A/I	SMCJ6.0AHE3/9AT	SMCJ6.0AHE3 A/I	SMCJ78CAHE3/9AT	SMCJ78CAHE3 A/I
SMCJ36CAHM3/H	SMCJ36CAHM3 A/H	SMCJ6.0AHM3/H	SMCJ6.0AHM3 A/H	SMCJ78CAHM3/H	SMCJ78CAHM3 A/H
SMCJ36CAHM3/I	SMCJ36CAHM3 A/I	SMCJ6.0AHM3/I	SMCJ6.0AHM3 A/I	SMCJ78CAHM3/I	SMCJ78CAHM3 A/I
SMCJ40AHE3/57T	SMCJ40AHE3 A/H	SMCJ6.0CAHE3/57T	SMCJ6.0CAHE3 A/H	SMCJ8.0AHE3/57T	SMCJ8.0AHE3 A/H
SMCJ40AHE3/9AT	SMCJ40AHE3 A/I	SMCJ6.0CAHE3/9AT	SMCJ6.0CAHE3 A/I	SMCJ8.0AHE3/9AT	SMCJ8.0AHE3 A/I
SMCJ40AHM3/H	SMCJ40AHM3 A/H	SMCJ6.0CAHM3/H	SMCJ6.0CAHM3 A/H	SMCJ8.0AHM3/H	SMCJ8.0AHM3 A/H
SMCJ40AHM3/I	SMCJ40AHM3 A/I	SMCJ6.0CAHM3/I	SMCJ6.0CAHM3 A/I	SMCJ8.0AHM3/I	SMCJ8.0AHM3 A/I
SMCJ40CAHE3/57T	SMCJ40CAHE3 A/H	SMCJ6.5AHE3/57T	SMCJ6.5AHE3 A/H	SMCJ8.0CAHE3/57T	SMCJ8.0CAHE3 A/H
SMCJ40CAHE3/9AT	SMCJ40CAHE3 A/I	SMCJ6.5AHE3/9AT	SMCJ6.5AHE3 A/I	SMCJ8.0CAHE3/9AT	SMCJ8.0CAHE3 A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMCJ8.0CAHM3/H	SMCJ8.0CAHM3_A/H	P4SMA120CAHM3/H	P4SMA120CAHM3_A/H	P4SMA170CAHM3/H	P4SMA170CAHM3_A/H
SMCJ8.0CAHM3/I	SMCJ8.0CAHM3_A/I	P4SMA120CAHM3/I	P4SMA120CAHM3_A/I	P4SMA170CAHM3/I	P4SMA170CAHM3_A/I
SMCJ8.5AHE3/57T	SMCJ8.5AHE3_A/H	P4SMA11AHE3/5A	P4SMA11AHE3_A/I	P4SMA180AHE3/5A	P4SMA180AHE3_A/I
SMCJ8.5AHE3/9AT	SMCJ8.5AHE3_A/I	P4SMA11AHE3/61	P4SMA11AHE3_A/H	P4SMA180AHE3/61	P4SMA180AHE3_A/H
SMCJ8.5AHM3/H	SMCJ8.5AHM3_A/H	P4SMA11AHM3/H	P4SMA11AHM3_A/H	P4SMA180AHM3/H	P4SMA180AHM3_A/H
SMCJ8.5AHM3/I	SMCJ8.5AHM3_A/I	P4SMA11AHM3/I	P4SMA11AHM3_A/I	P4SMA180AHM3/I	P4SMA180AHM3_A/I
SMCJ8.5CAHE3/57T	SMCJ8.5CAHE3_A/H	P4SMA12AHE3/5A	P4SMA12AHE3_A/I	P4SMA180CAHE3/5A	P4SMA180CAHE3_A/I
SMCJ8.5CAHE3/9AT	SMCJ8.5CAHE3_A/I	P4SMA12AHE3/61	P4SMA12AHE3_A/H	P4SMA180CAHE3/61	P4SMA180CAHE3_A/H
SMCJ8.5CAHM3/H	SMCJ8.5CAHM3_A/H	P4SMA12AHM3/H	P4SMA12AHM3_A/H	P4SMA180CAHM3/H	P4SMA180CAHM3_A/H
SMCJ8.5CAHM3/I	SMCJ8.5CAHM3_A/I	P4SMA12AHM3/I	P4SMA12AHM3_A/I	P4SMA180CAHM3/I	P4SMA180CAHM3_A/I
SMCJ85AHE3/57T	SMCJ85AHE3_A/H	P4SMA12CAHE3/5A	P4SMA12CAHE3_A/I	P4SMA18AHE3/5A	P4SMA18AHE3_A/I
SMCJ85AHE3/9AT	SMCJ85AHE3_A/I	P4SMA12CAHE3/61	P4SMA12CAHE3_A/H	P4SMA18AHE3/61	P4SMA18AHE3_A/H
SMCJ85AHM3/H	SMCJ85AHM3_A/H	P4SMA12CAHM3/H	P4SMA12CAHM3_A/H	P4SMA18AHM3/H	P4SMA18AHM3_A/H
SMCJ85AHM3/I	SMCJ85AHM3_A/I	P4SMA12CAHM3/I	P4SMA12CAHM3_A/I	P4SMA18AHM3/I	P4SMA18AHM3_A/I
SMCJ85CAHE3/57T	SMCJ85CAHE3_A/H	P4SMA12CAHE3/5A	P4SMA12CAHE3_A/I	P4SMA18CAHE3/5A	P4SMA18CAHE3_A/I
SMCJ85CAHE3/9AT	SMCJ85CAHE3_A/I	P4SMA130AHE3/61	P4SMA130AHE3_A/H	P4SMA18CAHE3/61	P4SMA18CAHE3_A/H
SMCJ85CAHM3/H	SMCJ85CAHM3_A/H	P4SMA130AHM3/H	P4SMA130AHM3_A/H	P4SMA18CAHM3/H	P4SMA18CAHM3_A/H
SMCJ85CAHM3/I	SMCJ85CAHM3_A/I	P4SMA130AHM3/I	P4SMA130AHM3_A/I	P4SMA18CAHM3/I	P4SMA18CAHM3_A/I
SMCJ9.0AHE3/57T	SMCJ9.0AHE3_A/H	P4SMA130CAHE3/5A	P4SMA130CAHE3_A/I	P4SMA18CAHE3/5A	P4SMA18CAHE3_A/I
SMCJ9.0AHE3/9AT	SMCJ9.0AHE3_A/I	P4SMA130CAHE3/61	P4SMA130CAHE3_A/H	P4SMA200AHE3/61	P4SMA200AHE3_A/H
SMCJ9.0AHM3/H	SMCJ9.0AHM3_A/H	P4SMA130CAHM3/H	P4SMA130CAHM3_A/H	P4SMA200AHM3/H	P4SMA200AHM3_A/H
SMCJ9.0AHM3/I	SMCJ9.0AHM3_A/I	P4SMA130CAHM3/I	P4SMA130CAHM3_A/I	P4SMA200AHM3/I	P4SMA200AHM3_A/I
SMCJ9.0CAHE3/57T	SMCJ9.0CAHE3_A/H	P4SMA13AHE3/5A	P4SMA13AHE3_A/I	P4SMA200CAHE3/5A	P4SMA200CAHE3_A/I
SMCJ9.0CAHE3/9AT	SMCJ9.0CAHE3_A/I	P4SMA13AHE3/61	P4SMA13AHE3_A/H	P4SMA200CAHE3/61	P4SMA200CAHE3_A/H
SMCJ9.0CAHM3/H	SMCJ9.0CAHM3_A/H	P4SMA13AHM3/H	P4SMA13AHM3_A/H	P4SMA200CAHM3/H	P4SMA200CAHM3_A/H
SMCJ9.0CAHM3/I	SMCJ9.0CAHM3_A/I	P4SMA13AHM3/I	P4SMA13AHM3_A/I	P4SMA200CAHM3/I	P4SMA200CAHM3_A/I
SMCJ90AHE3/57T	SMCJ90AHE3_A/H	P4SMA13CAHE3/5A	P4SMA13CAHE3_A/I	P4SMA20AHE3/5A	P4SMA20AHE3_A/I
SMCJ90AHE3/9AT	SMCJ90AHE3_A/I	P4SMA13CAHE3/61	P4SMA13CAHE3_A/H	P4SMA20AHE3/61	P4SMA20AHE3_A/H
SMCJ90AHM3/H	SMCJ90AHM3_A/H	P4SMA13CAHM3/H	P4SMA13CAHM3_A/H	P4SMA20AHM3/H	P4SMA20AHM3_A/H
SMCJ90AHM3/I	SMCJ90AHM3_A/I	P4SMA13CAHM3/I	P4SMA13CAHM3_A/I	P4SMA20AHM3/I	P4SMA20AHM3_A/I
SMCJ90CAHE3/57T	SMCJ90CAHE3_A/H	P4SMA150AHE3/5A	P4SMA150AHE3_A/I	P4SMA20CAHE3/5A	P4SMA20CAHE3_A/I
SMCJ90CAHE3/9AT	SMCJ90CAHE3_A/I	P4SMA150AHE3/61	P4SMA150AHE3_A/H	P4SMA20CAHE3/61	P4SMA20CAHE3_A/H
SMCJ90CAHM3/H	SMCJ90CAHM3_A/H	P4SMA150AHM3/H	P4SMA150AHM3_A/H	P4SMA20CAHM3/H	P4SMA20CAHM3_A/H
SMCJ90CAHM3/I	SMCJ90CAHM3_A/I	P4SMA150AHM3/I	P4SMA150AHM3_A/I	P4SMA20CAHM3/I	P4SMA20CAHM3_A/I
P4SMA100AHE3/5A	P4SMA100AHE3_A/I	P4SMA150CAHE3/5A	P4SMA150CAHE3_A/I	P4SMA220AHE3/5A	P4SMA220AHE3_A/I
P4SMA100AHE3/61	P4SMA100AHE3_A/H	P4SMA150CAHE3/61	P4SMA150CAHE3_A/H	P4SMA220AHE3/61	P4SMA220AHE3_A/H
P4SMA100AHM3/H	P4SMA100AHM3_A/H	P4SMA150CAHM3/H	P4SMA150CAHM3_A/H	P4SMA220AHM3/H	P4SMA220AHM3_A/H
P4SMA100AHM3/I	P4SMA100AHM3_A/I	P4SMA150CAHM3/I	P4SMA150CAHM3_A/I	P4SMA220AHM3/I	P4SMA220AHM3_A/I
P4SMA100CAHE3/5A	P4SMA100CAHE3_A/I	P4SMA15AHE3/5A	P4SMA15AHE3_A/I	P4SMA220CAHE3/5A	P4SMA220CAHE3_A/I
P4SMA100CAHE3/61	P4SMA100CAHE3_A/H	P4SMA15AHE3/61	P4SMA15AHE3_A/H	P4SMA220CAHE3/61	P4SMA220CAHE3_A/H
P4SMA100CAHM3/H	P4SMA100CAHM3_A/H	P4SMA15AHM3/H	P4SMA15AHM3_A/H	P4SMA220CAHM3/H	P4SMA220CAHM3_A/H
P4SMA100CAHM3/I	P4SMA100CAHM3_A/I	P4SMA15AHM3/I	P4SMA15AHM3_A/I	P4SMA220CAHM3/I	P4SMA220CAHM3_A/I
P4SMA10AHE3/5A	P4SMA10AHE3_A/I	P4SMA15CAHE3/5A	P4SMA15CAHE3_A/I	P4SMA22AHE3/5A	P4SMA22AHE3_A/I
P4SMA10AHE3/61	P4SMA10AHE3_A/H	P4SMA15CAHE3/61	P4SMA15CAHE3_A/H	P4SMA22AHE3/61	P4SMA22AHE3_A/H
P4SMA10AHM3/H	P4SMA10AHM3_A/H	P4SMA15CAHM3/H	P4SMA15CAHM3_A/H	P4SMA22AHM3/H	P4SMA22AHM3_A/H
P4SMA10AHM3/I	P4SMA10AHM3_A/I	P4SMA15CAHM3/I	P4SMA15CAHM3_A/I	P4SMA22AHM3/I	P4SMA22AHM3_A/I
P4SMA10CAHE3/5A	P4SMA10CAHE3_A/I	P4SMA160AHE3/5A	P4SMA160AHE3_A/I	P4SMA22CAHE3/5A	P4SMA22CAHE3_A/I
P4SMA10CAHE3/61	P4SMA10CAHE3_A/H	P4SMA160AHE3/61	P4SMA160AHE3_A/H	P4SMA22CAHE3/61	P4SMA22CAHE3_A/H
P4SMA10CAHM3/H	P4SMA10CAHM3_A/H	P4SMA160AHM3/H	P4SMA160AHM3_A/H	P4SMA22CAHM3/H	P4SMA22CAHM3_A/H
P4SMA10CAHM3/I	P4SMA10CAHM3_A/I	P4SMA160AHM3/I	P4SMA160AHM3_A/I	P4SMA22CAHM3/I	P4SMA22CAHM3_A/I
P4SMA110AHE3/5A	P4SMA110AHE3_A/I	P4SMA16AHE3/5A	P4SMA16AHE3_A/I	P4SMA24AHE3/5A	P4SMA24AHE3_A/I
P4SMA110AHE3/61	P4SMA110AHE3_A/H	P4SMA16AHE3/61	P4SMA16AHE3_A/H	P4SMA24AHE3/61	P4SMA24AHE3_A/H
P4SMA110AHM3/H	P4SMA110AHM3_A/H	P4SMA16AHM3/H	P4SMA16AHM3_A/H	P4SMA24AHM3/H	P4SMA24AHM3_A/H
P4SMA110AHM3/I	P4SMA110AHM3_A/I	P4SMA16AHM3/I	P4SMA16AHM3_A/I	P4SMA24AHM3/I	P4SMA24AHM3_A/I
P4SMA110CAHE3/5A	P4SMA110CAHE3_A/I	P4SMA160CAHE3/5A	P4SMA160CAHE3_A/I	P4SMA24CAHE3/5A	P4SMA24CAHE3_A/I
P4SMA110CAHE3/61	P4SMA110CAHE3_A/H	P4SMA160CAHE3/61	P4SMA160CAHE3_A/H	P4SMA24CAHE3/61	P4SMA24CAHE3_A/H
P4SMA110CAHM3/H	P4SMA110CAHM3_A/H	P4SMA160CAHM3/H	P4SMA160CAHM3_A/H	P4SMA24CAHM3/H	P4SMA24CAHM3_A/H
P4SMA110CAHM3/I	P4SMA110CAHM3_A/I	P4SMA160CAHM3/I	P4SMA160CAHM3_A/I	P4SMA24CAHM3/I	P4SMA24CAHM3_A/I
P4SMA120AHE3/5A	P4SMA120AHE3_A/I	P4SMA16CAHE3/5A	P4SMA16CAHE3_A/I	P4SMA250AHM3_A/H	P4SMA250AHM3_B/H
P4SMA120AHE3/61	P4SMA120AHE3_A/H	P4SMA16CAHE3/61	P4SMA16CAHE3_A/H	P4SMA250AHM3_A/I	P4SMA250AHM3_B/I
P4SMA120AHM3/H	P4SMA120AHM3_A/H	P4SMA16CAHM3/H	P4SMA16CAHM3_A/H	P4SMA27AHE3/5A	P4SMA27AHE3_A/I
P4SMA120AHM3/I	P4SMA120AHM3_A/I	P4SMA16CAHM3/I	P4SMA16CAHM3_A/I	P4SMA27AHE3/61	P4SMA27AHE3_A/H
P4SMA11CAHE3/5A	P4SMA11CAHE3_A/I	P4SMA170AHE3/5A	P4SMA170AHE3_A/I	P4SMA27AHM3/H	P4SMA27AHM3_A/H
P4SMA11CAHE3/61	P4SMA11CAHE3_A/H	P4SMA170AHE3/61	P4SMA170AHE3_A/H	P4SMA27AHM3/I	P4SMA27AHM3_A/I
P4SMA11CAHM3/H	P4SMA11CAHM3_A/H	P4SMA170AHM3/H	P4SMA170AHM3_A/H	P4SMA27CAHE3/5A	P4SMA27CAHE3_A/I
P4SMA11CAHM3/I	P4SMA11CAHM3_A/I	P4SMA170AHM3/I	P4SMA170AHM3_A/I	P4SMA27CAHE3/61	P4SMA27CAHE3_A/H
P4SMA120CAHE3/5A	P4SMA120CAHE3_A/I	P4SMA170CAHE3/5A	P4SMA170CAHE3_A/I	P4SMA27CAHM3/H	P4SMA27CAHM3_A/H
P4SMA120CAHE3/61	P4SMA120CAHE3_A/H	P4SMA170CAHE3/61	P4SMA170CAHE3_A/H	P4SMA27CAHM3/I	P4SMA27CAHM3_A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
P4SMA300AHM3_A/H	P4SMA300AHM3_B/H	P4SMA540AHM3_A/H	P4SMA540AHM3_B/H	P4SMA9.1AHM3/H	P4SMA9.1AHM3_A/H
P4SMA300AHM3_A/I	P4SMA300AHM3_B/I	P4SMA540AHM3_A/I	P4SMA540AHM3_B/I	P4SMA9.1AHM3/I	P4SMA9.1AHM3_A/I
P4SMA30AHE3/5A	P4SMA30AHE3_A/I	P4SMA56AHE3/5A	P4SMA56AHE3_A/I	P4SMA9.1CAHE3/5A	P4SMA9.1CAHE3_A/I
P4SMA30AHE3/61	P4SMA30AHE3_A/H	P4SMA56AHE3/61	P4SMA56AHE3_A/H	P4SMA9.1CAHE3/61	P4SMA9.1CAHE3_A/H
P4SMA30AHM3/H	P4SMA30AHM3_A/H	P4SMA56AHM3/H	P4SMA56AHM3_A/H	P4SMA9.1CAHM3/H	P4SMA9.1CAHM3_A/H
P4SMA30AHM3/I	P4SMA30AHM3_A/I	P4SMA56AHM3/I	P4SMA56AHM3_A/I	P4SMA9.1CAHM3/I	P4SMA9.1CAHM3_A/I
P4SMA30CAHE3/5A	P4SMA30CAHE3_A/I	P4SMA56CAHE3/5A	P4SMA56CAHE3_A/I	P4SMA91AHE3/5A	P4SMA91AHE3_A/I
P4SMA30CAHE3/61	P4SMA30CAHE3_A/H	P4SMA56CAHE3/61	P4SMA56CAHE3_A/H	P4SMA91AHE3/61	P4SMA91AHE3_A/H
P4SMA30CAHM3/H	P4SMA30CAHM3_A/H	P4SMA56CAHM3/H	P4SMA56CAHM3_A/H	P4SMA91AHM3/H	P4SMA91AHM3_A/H
P4SMA30CAHM3/I	P4SMA30CAHM3_A/I	P4SMA56CAHM3/I	P4SMA56CAHM3_A/I	P4SMA91AHM3/I	P4SMA91AHM3_A/I
P4SMA33AHE3/5A	P4SMA33AHE3_A/I	P4SMA6.8AHE3/5A	P4SMA6.8AHE3_A/I	P4SMA91CAHE3/5A	P4SMA91CAHE3_A/I
P4SMA33AHE3/61	P4SMA33AHE3_A/H	P4SMA6.8AHE3/61	P4SMA6.8AHE3_A/H	P4SMA91CAHE3/61	P4SMA91CAHE3_A/H
P4SMA33AHM3/H	P4SMA33AHM3_A/H	P4SMA6.8AHM3/H	P4SMA6.8AHM3_A/H	P4SMA91CAHM3/H	P4SMA91CAHM3_A/H
P4SMA33AHM3/I	P4SMA33AHM3_A/I	P4SMA6.8AHM3/I	P4SMA6.8AHM3_A/I	P4SMA91CAHM3/I	P4SMA91CAHM3_A/I
P4SMA33CAHE3/5A	P4SMA33CAHE3_A/I	P4SMA6.8CAHE3/5A	P4SMA6.8CAHE3_A/I	SMA5J10AHE3/5A	SMA5J10AHE3_A/I
P4SMA33CAHE3/61	P4SMA33CAHE3_A/H	P4SMA6.8CAHE3/61	P4SMA6.8CAHE3_A/H	SMA5J10AHE3/61	SMA5J10AHE3_A/H
P4SMA33CAHM3/H	P4SMA33CAHM3_A/H	P4SMA6.8CAHM3/H	P4SMA6.8CAHM3_A/H	SMA5J10AHM3/H	SMA5J10AHM3_A/H
P4SMA33CAHM3/I	P4SMA33CAHM3_A/I	P4SMA6.8CAHM3/I	P4SMA6.8CAHM3_A/I	SMA5J10AHM3/I	SMA5J10AHM3_A/I
P4SMA350AHM3_A/H	P4SMA350AHM3_B/H	P4SMA62AHE3/5A	P4SMA62AHE3_A/I	SMA5J10CAHE3/5A	SMA5J10CAHE3_A/I
P4SMA350AHM3_A/I	P4SMA350AHM3_B/I	P4SMA62AHE3/61	P4SMA62AHE3_A/H	SMA5J10CAHE3/61	SMA5J10CAHE3_A/H
P4SMA36AHE3/5A	P4SMA36AHE3_A/I	P4SMA62AHM3/H	P4SMA62AHM3_A/H	SMA5J10CAHM3/H	SMA5J10CAHM3_A/H
P4SMA36AHE3/61	P4SMA36AHE3_A/H	P4SMA62AHM3/I	P4SMA62AHM3_A/I	SMA5J10CAHM3/I	SMA5J10CAHM3_A/I
P4SMA36AHM3/H	P4SMA36AHM3_A/H	P4SMA62CAHE3/5A	P4SMA62CAHE3_A/I	SMA5J11AHE3/5A	SMA5J11AHE3_A/I
P4SMA36AHM3/I	P4SMA36AHM3_A/I	P4SMA62CAHE3/61	P4SMA62CAHE3_A/H	SMA5J11AHE3/61	SMA5J11AHE3_A/H
P4SMA36CAHE3/5A	P4SMA36CAHE3_A/I	P4SMA62CAHM3/H	P4SMA62CAHM3_A/H	SMA5J11AHM3/H	SMA5J11AHM3_A/H
P4SMA36CAHE3/61	P4SMA36CAHE3_A/H	P4SMA62CAHM3/I	P4SMA62CAHM3_A/I	SMA5J11AHM3/I	SMA5J11AHM3_A/I
P4SMA36CAHM3/H	P4SMA36CAHM3_A/H	P4SMA68AHE3/5A	P4SMA68AHE3_A/I	SMA5J11CAHE3/5A	SMA5J11CAHE3_A/I
P4SMA36CAHM3/I	P4SMA36CAHM3_A/I	P4SMA68AHE3/61	P4SMA68AHE3_A/H	SMA5J11CAHE3/61	SMA5J11CAHE3_A/H
P4SMA39AHE3/5A	P4SMA39AHE3_A/I	P4SMA68AHM3/H	P4SMA68AHM3_A/H	SMA5J11CAHM3/H	SMA5J11CAHM3_A/H
P4SMA39AHE3/61	P4SMA39AHE3_A/H	P4SMA68AHM3/I	P4SMA68AHM3_A/I	SMA5J11CAHM3/I	SMA5J11CAHM3_A/I
P4SMA39AHM3/H	P4SMA39AHM3_A/H	P4SMA68CAHE3/5A	P4SMA68CAHE3_A/I	SMA5J12AHE3/5A	SMA5J12AHE3_A/I
P4SMA39AHM3/I	P4SMA39AHM3_A/I	P4SMA68CAHE3/61	P4SMA68CAHE3_A/H	SMA5J12AHE3/61	SMA5J12AHE3_A/H
P4SMA39CAHE3/5A	P4SMA39CAHE3_A/I	P4SMA68CAHM3/H	P4SMA68CAHM3_A/H	SMA5J12AHM3/H	SMA5J12AHM3_A/H
P4SMA39CAHE3/61	P4SMA39CAHE3_A/H	P4SMA68CAHM3/I	P4SMA68CAHM3_A/I	SMA5J12AHM3/I	SMA5J12AHM3_A/I
P4SMA39CAHM3/H	P4SMA39CAHM3_A/H	P4SMA7.5AHE3/5A	P4SMA7.5AHE3_A/I	SMA5J12CAHE3/5A	SMA5J12CAHE3_A/I
P4SMA39CAHM3/I	P4SMA39CAHM3_A/I	P4SMA7.5AHE3/61	P4SMA7.5AHE3_A/H	SMA5J12CAHE3/61	SMA5J12CAHE3_A/H
P4SMA400AHM3_A/H	P4SMA400AHM3_B/H	P4SMA7.5AHM3/H	P4SMA7.5AHM3_A/H	SMA5J12CAHM3/H	SMA5J12CAHM3_A/H
P4SMA400AHM3_A/I	P4SMA400AHM3_B/I	P4SMA7.5AHM3/I	P4SMA7.5AHM3_A/I	SMA5J12CAHM3/I	SMA5J12CAHM3_A/I
P4SMA43AHE3/5A	P4SMA43AHE3_A/I	P4SMA7.5CAHE3/5A	P4SMA7.5CAHE3_A/I	SMA5J13AHE3/5A	SMA5J13AHE3_A/I
P4SMA43AHE3/61	P4SMA43AHE3_A/H	P4SMA7.5CAHE3/61	P4SMA7.5CAHE3_A/H	SMA5J13AHE3/61	SMA5J13AHE3_A/H
P4SMA43AHM3/H	P4SMA43AHM3_A/H	P4SMA7.5CAHM3/H	P4SMA7.5CAHM3_A/H	SMA5J13AHM3/H	SMA5J13AHM3_A/H
P4SMA43AHM3/I	P4SMA43AHM3_A/I	P4SMA7.5CAHM3/I	P4SMA7.5CAHM3_A/I	SMA5J13AHM3/I	SMA5J13AHM3_A/I
P4SMA43CAHE3/5A	P4SMA43CAHE3_A/I	P4SMA75AHE3/5A	P4SMA75AHE3_A/I	SMA5J13CAHE3/5A	SMA5J13CAHE3_A/I
P4SMA43CAHE3/61	P4SMA43CAHE3_A/H	P4SMA75AHE3/61	P4SMA75AHE3_A/H	SMA5J13CAHE3/61	SMA5J13CAHE3_A/H
P4SMA43CAHM3/H	P4SMA43CAHM3_A/H	P4SMA75AHM3/H	P4SMA75AHM3_A/H	SMA5J13CAHM3/H	SMA5J13CAHM3_A/H
P4SMA43CAHM3/I	P4SMA43CAHM3_A/I	P4SMA75AHM3/I	P4SMA75AHM3_A/I	SMA5J13CAHM3/I	SMA5J13CAHM3_A/I
P4SMA440AHM3_A/H	P4SMA440AHM3_B/H	P4SMA75CAHE3/5A	P4SMA75CAHE3_A/I	SMA5J14AHE3/5A	SMA5J14AHE3_A/I
P4SMA440AHM3_A/I	P4SMA440AHM3_B/I	P4SMA75CAHE3/61	P4SMA75CAHE3_A/H	SMA5J14AHE3/61	SMA5J14AHE3_A/H
P4SMA47AHE3/5A	P4SMA47AHE3_A/I	P4SMA75CAHM3/H	P4SMA75CAHM3_A/H	SMA5J14AHM3/H	SMA5J14AHM3_A/H
P4SMA47AHE3/61	P4SMA47AHE3_A/H	P4SMA75CAHM3/I	P4SMA75CAHM3_A/I	SMA5J14AHM3/I	SMA5J14AHM3_A/I
P4SMA47AHM3/H	P4SMA47AHM3_A/H	P4SMA8.2AHE3/5A	P4SMA8.2AHE3_A/I	SMA5J14CAHE3/5A	SMA5J14CAHE3_A/I
P4SMA47AHM3/I	P4SMA47AHM3_A/I	P4SMA8.2AHE3/61	P4SMA8.2AHE3_A/H	SMA5J14CAHE3/61	SMA5J14CAHE3_A/H
P4SMA47CAHE3/5A	P4SMA47CAHE3_A/I	P4SMA8.2AHM3/H	P4SMA8.2AHM3_A/H	SMA5J14CAHM3/H	SMA5J14CAHM3_A/H
P4SMA47CAHE3/61	P4SMA47CAHE3_A/H	P4SMA8.2AHM3/I	P4SMA8.2AHM3_A/I	SMA5J14CAHM3/I	SMA5J14CAHM3_A/I
P4SMA47CAHM3/H	P4SMA47CAHM3_A/H	P4SMA8.2CAHE3/5A	P4SMA8.2CAHE3_A/I	SMA5J15AHE3/5A	SMA5J15AHE3_A/I
P4SMA47CAHM3/I	P4SMA47CAHM3_A/I	P4SMA8.2CAHE3/61	P4SMA8.2CAHE3_A/H	SMA5J15AHE3/61	SMA5J15AHE3_A/H
P4SMA480AHM3_A/H	P4SMA480AHM3_B/H	P4SMA8.2CAHM3/H	P4SMA8.2CAHM3_A/H	SMA5J15AHM3/H	SMA5J15AHM3_A/H
P4SMA480AHM3_A/I	P4SMA480AHM3_B/I	P4SMA8.2CAHM3/I	P4SMA8.2CAHM3_A/I	SMA5J15AHM3/I	SMA5J15AHM3_A/I
P4SMA510AHM3_A/H	P4SMA510AHM3_B/H	P4SMA82AHE3/5A	P4SMA82AHE3_A/I	SMA5J15CAHE3/5A	SMA5J15CAHE3_A/I
P4SMA510AHM3_A/I	P4SMA510AHM3_B/I	P4SMA82AHE3/61	P4SMA82AHE3_A/H	SMA5J15CAHE3/61	SMA5J15CAHE3_A/H
P4SMA51AHE3/5A	P4SMA51AHE3_A/I	P4SMA82AHM3/H	P4SMA82AHM3_A/H	SMA5J15CAHM3/H	SMA5J15CAHM3_A/H
P4SMA51AHE3/61	P4SMA51AHE3_A/H	P4SMA82AHM3/I	P4SMA82AHM3_A/I	SMA5J15CAHM3/I	SMA5J15CAHM3_A/I
P4SMA51AHM3/H	P4SMA51AHM3_A/H	P4SMA82CAHE3/5A	P4SMA82CAHE3_A/I	SMA5J16AHE3/5A	SMA5J16AHE3_A/I
P4SMA51AHM3/I	P4SMA51AHM3_A/I	P4SMA82CAHE3/61	P4SMA82CAHE3_A/H	SMA5J16AHE3/61	SMA5J16AHE3_A/H
P4SMA51CAHE3/5A	P4SMA51CAHE3_A/I	P4SMA82CAHM3/H	P4SMA82CAHM3_A/H	SMA5J16AHM3/H	SMA5J16AHM3_A/H
P4SMA51CAHE3/61	P4SMA51CAHE3_A/H	P4SMA82CAHM3/I	P4SMA82CAHM3_A/I	SMA5J16AHM3/I	SMA5J16AHM3_A/I
P4SMA51CAHM3/H	P4SMA51CAHM3_A/H	P4SMA9.1AHE3/5A	P4SMA9.1AHE3_A/I	SMA5J16CAHE3/5A	SMA5J16CAHE3_A/I
P4SMA51CAHM3/I	P4SMA51CAHM3_A/I	P4SMA9.1AHE3/61	P4SMA9.1AHE3_A/H	SMA5J16CAHE3/61	SMA5J16CAHE3_A/H



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMA5J16CAHE3H/H	SMA5J16CAHE3H A/H	SMA5J33AHE3/61	SMA5J33AHE3 A/H	SMA5J8.0CAHE3/61	SMA5J8.0CAHE3 A/H
SMA5J16CAHM3/H	SMA5J16CAHM3 A/H	SMA5J33AHE3/H	SMA5J33AHE3 A/H	SMA5J8.0CAHM3/H	SMA5J8.0CAHM3 A/H
SMA5J16CAHM3/I	SMA5J16CAHM3 A/I	SMA5J33AHE3/I	SMA5J33AHE3 A/I	SMA5J8.0CAHM3/I	SMA5J8.0CAHM3 A/I
SMA5J17AHE3/5A	SMA5J17AHE3 A/I	SMA5J33CAHE3/5A	SMA5J33CAHE3 A/I	SMA5J8.5AHE3/5A	SMA5J8.5AHE3 A/I
SMA5J17AHE3/61	SMA5J17AHE3 A/H	SMA5J33CAHE3/61	SMA5J33CAHE3 A/H	SMA5J8.5AHE3/61	SMA5J8.5AHE3 A/H
SMA5J17AHM3/H	SMA5J17AHM3 A/H	SMA5J33CAHM3/H	SMA5J33CAHM3 A/H	SMA5J8.5AHM3/H	SMA5J8.5AHM3 A/H
SMA5J17AHM3/I	SMA5J17AHM3 A/I	SMA5J33CAHM3/I	SMA5J33CAHM3 A/I	SMA5J8.5AHM3/I	SMA5J8.5AHM3 A/I
SMA5J17CAHE3/5A	SMA5J17CAHE3 A/I	SMA5J36AHE3/5A	SMA5J36AHE3 A/I	SMA5J8.5CAHE3/5A	SMA5J8.5CAHE3 A/I
SMA5J17CAHE3/61	SMA5J17CAHE3 A/H	SMA5J36AHE3/61	SMA5J36AHE3 A/H	SMA5J8.5CAHE3/61	SMA5J8.5CAHE3 A/H
SMA5J17CAHM3/H	SMA5J17CAHM3 A/H	SMA5J36AHE3/H	SMA5J36AHE3 A/H	SMA5J8.5CAHM3/H	SMA5J8.5CAHM3 A/H
SMA5J17CAHM3/I	SMA5J17CAHM3 A/I	SMA5J36AHE3/I	SMA5J36AHE3 A/I	SMA5J8.5CAHM3/I	SMA5J8.5CAHM3 A/I
SMA5J18AHE3/5A	SMA5J18AHE3 A/I	SMA5J36CAHE3/5A	SMA5J36CAHE3 A/I	SMA5J9.0AHE3/5A	SMA5J9.0AHE3 A/I
SMA5J18AHE3/61	SMA5J18AHE3 A/H	SMA5J36CAHE3/61	SMA5J36CAHE3 A/H	SMA5J9.0AHE3/61	SMA5J9.0AHE3 A/H
SMA5J18AHM3/H	SMA5J18AHM3 A/H	SMA5J36CAHM3/H	SMA5J36CAHM3 A/H	SMA5J9.0AHM3/H	SMA5J9.0AHM3 A/H
SMA5J18AHM3/I	SMA5J18AHM3 A/I	SMA5J36CAHM3/I	SMA5J36CAHM3 A/I	SMA5J9.0AHM3/I	SMA5J9.0AHM3 A/I
SMA5J18CAHE3/5A	SMA5J18CAHE3 A/I	SMA5J40AHE3/5A	SMA5J40AHE3 A/I	SMA5J9.0CAHE3/5A	SMA5J9.0CAHE3 A/I
SMA5J18CAHE3/61	SMA5J18CAHE3 A/H	SMA5J40AHE3/61	SMA5J40AHE3 A/H	SMA5J9.0CAHE3/61	SMA5J9.0CAHE3 A/H
SMA5J18CAHM3/H	SMA5J18CAHM3 A/H	SMA5J40AHE3/H	SMA5J40AHE3 A/H	SMA5J9.0CAHM3/H	SMA5J9.0CAHM3 A/H
SMA5J18CAHM3/I	SMA5J18CAHM3 A/I	SMA5J40AHE3/I	SMA5J40AHE3 A/I	SMA5J9.0CAHM3/I	SMA5J9.0CAHM3 A/I
SMA5J20AHE3/5A	SMA5J20AHE3 A/I	SMA5J40CAHE3/5A	SMA5J40CAHE3 A/I	SMA6J5.0A-01HM3/I	SMA6J5.0A01HM3 A/I
SMA5J20AHE3/61	SMA5J20AHE3 A/H	SMA5J40CAHE3/61	SMA5J40CAHE3 A/H	SMAJ100AHE3/5A	SMAJ100AHE3 A/I
SMA5J20AHM3/H	SMA5J20AHM3 A/H	SMA5J40CAHE3/H	SMA5J40CAHE3 A/H	SMAJ100AHE3/61	SMAJ100AHE3 A/H
SMA5J20AHM3/I	SMA5J20AHM3 A/I	SMA5J40CAHE3/I	SMA5J40CAHE3 A/I	SMAJ100AHE3/H	SMAJ100AHE3 A/H
SMA5J20CAHE3/5A	SMA5J20CAHE3 A/I	SMA5J5.0AHE3/5A	SMA5J5.0AHE3 A/I	SMAJ100AHM3/I	SMAJ100AHM3 A/I
SMA5J20CAHE3/61	SMA5J20CAHE3 A/H	SMA5J5.0AHE3/61	SMA5J5.0AHE3 A/H	SMAJ100CAHE3/5A	SMAJ100CAHE3 A/I
SMA5J20CAHM3/H	SMA5J20CAHM3 A/H	SMA5J5.0AHE3/H	SMA5J5.0AHE3 A/H	SMAJ100CAHE3/61	SMAJ100CAHE3 A/H
SMA5J20CAHM3/I	SMA5J20CAHM3 A/I	SMA5J5.0AHM3/H	SMA5J5.0AHM3 A/H	SMAJ100CAHE3/H	SMAJ100CAHE3 A/H
SMA5J22AHE3/5A	SMA5J22AHE3 A/I	SMA5J5.0AHM3/I	SMA5J5.0AHM3 A/I	SMAJ100CAHM3/I	SMAJ100CAHM3 A/I
SMA5J22AHE3/61	SMA5J22AHE3 A/H	SMA5J5.0CAHE3/5A	SMA5J5.0CAHE3 A/I	SMAJ100CAHM3/H	SMAJ100CAHM3 A/H
SMA5J22AHE3/H	SMA5J22AHE3 A/H	SMA5J5.0CAHE3/61	SMA5J5.0CAHE3 A/H	SMAJ100CAHM3/I	SMAJ100CAHM3 A/I
SMA5J22AHE3/I	SMA5J22AHE3 A/I	SMA5J5.0CAHE3/H	SMA5J5.0CAHE3 A/H	SMAJ10AHE3/5A	SMAJ10AHE3 A/I
SMA5J22AHM3/H	SMA5J22AHM3 A/H	SMA5J5.0CAHM3/H	SMA5J5.0CAHM3 A/H	SMAJ10AHE3/61	SMAJ10AHE3 A/H
SMA5J22AHM3/I	SMA5J22AHM3 A/I	SMA5J5.0CAHM3/I	SMA5J5.0CAHM3 A/I	SMAJ10AHM3/H	SMAJ10AHM3 A/H
SMA5J22CAHE3/5A	SMA5J22CAHE3 A/I	SMA5J6.0AHE3/5A	SMA5J6.0AHE3 A/I	SMAJ10AHM3/I	SMAJ10AHM3 A/I
SMA5J22CAHE3/61	SMA5J22CAHE3 A/H	SMA5J6.0AHE3/61	SMA5J6.0AHE3 A/H	SMAJ10CAHE3/5A	SMAJ10CAHE3 A/I
SMA5J22CAHM3/H	SMA5J22CAHM3 A/H	SMA5J6.0AHE3/H	SMA5J6.0AHE3 A/H	SMAJ10CAHE3/61	SMAJ10CAHE3 A/H
SMA5J22CAHM3/I	SMA5J22CAHM3 A/I	SMA5J6.0AHM3/H	SMA5J6.0AHM3 A/H	SMAJ10CAHE3/H	SMAJ10CAHE3 A/H
SMA5J24AHE3/5A	SMA5J24AHE3 A/I	SMA5J6.0AHM3/I	SMA5J6.0AHM3 A/I	SMAJ10CAHM3/I	SMAJ10CAHM3 A/I
SMA5J24AHE3/61	SMA5J24AHE3 A/H	SMA5J6.0CAHE3/5A	SMA5J6.0CAHE3 A/I	SMAJ10CAHM3/H	SMAJ10CAHM3 A/H
SMA5J24AHE3/H	SMA5J24AHE3 A/H	SMA5J6.0CAHE3/61	SMA5J6.0CAHE3 A/H	SMAJ110AHE3/5A	SMAJ110AHE3 A/I
SMA5J24AHE3/I	SMA5J24AHE3 A/I	SMA5J6.0CAHE3/H	SMA5J6.0CAHE3 A/H	SMAJ110AHE3/61	SMAJ110AHE3 A/H
SMA5J24AHM3/H	SMA5J24AHM3 A/H	SMA5J6.0CAHM3/H	SMA5J6.0CAHM3 A/H	SMAJ110AHE3/H	SMAJ110AHE3 A/H
SMA5J24AHM3/I	SMA5J24AHM3 A/I	SMA5J6.0CAHM3/I	SMA5J6.0CAHM3 A/I	SMAJ110AHM3/H	SMAJ110AHM3 A/H
SMA5J24CAHE3/5A	SMA5J24CAHE3 A/I	SMA5J6.5AHE3/5A	SMA5J6.5AHE3 A/I	SMAJ110AHM3/I	SMAJ110AHM3 A/I
SMA5J24CAHE3/61	SMA5J24CAHE3 A/H	SMA5J6.5AHE3/61	SMA5J6.5AHE3 A/H	SMAJ110CAHE3/5A	SMAJ110CAHE3 A/I
SMA5J24CAHM3/H	SMA5J24CAHM3 A/H	SMA5J6.5AHE3/H	SMA5J6.5AHE3 A/H	SMAJ110CAHE3/61	SMAJ110CAHE3 A/H
SMA5J24CAHM3/I	SMA5J24CAHM3 A/I	SMA5J6.5AHM3/H	SMA5J6.5AHM3 A/H	SMAJ110CAHE3/H	SMAJ110CAHE3 A/H
SMA5J26AHE3/5A	SMA5J26AHE3 A/I	SMA5J6.5AHM3/I	SMA5J6.5AHM3 A/I	SMAJ110CAHM3/I	SMAJ110CAHM3 A/I
SMA5J26AHE3/61	SMA5J26AHE3 A/H	SMA5J6.5CAHE3/5A	SMA5J6.5CAHE3 A/I	SMAJ110CAHM3/H	SMAJ110CAHM3 A/H
SMA5J26AHE3/H	SMA5J26AHE3 A/H	SMA5J6.5CAHE3/61	SMA5J6.5CAHE3 A/H	SMAJ110CAHM3/I	SMAJ110CAHM3 A/I
SMA5J26AHE3/I	SMA5J26AHE3 A/I	SMA5J6.5CAHE3/H	SMA5J6.5CAHE3 A/H	SMAJ11AHE3/5A	SMAJ11AHE3 A/I
SMA5J26AHM3/H	SMA5J26AHM3 A/H	SMA5J6.5CAHM3/H	SMA5J6.5CAHM3 A/H	SMAJ11AHE3/61	SMAJ11AHE3 A/H
SMA5J26AHM3/I	SMA5J26AHM3 A/I	SMA5J6.5CAHM3/I	SMA5J6.5CAHM3 A/I	SMAJ11AHM3/H	SMAJ11AHM3 A/H
SMA5J26CAHE3/5A	SMA5J26CAHE3 A/I	SMA5J7.0AHE3/5A	SMA5J7.0AHE3 A/I	SMAJ11AHM3/I	SMAJ11AHM3 A/I
SMA5J26CAHE3/61	SMA5J26CAHE3 A/H	SMA5J7.0AHE3/61	SMA5J7.0AHE3 A/H	SMAJ11CAHE3/5A	SMAJ11CAHE3 A/I
SMA5J26CAHM3/H	SMA5J26CAHM3 A/H	SMA5J7.0AHE3/H	SMA5J7.0AHE3 A/H	SMAJ11CAHE3/61	SMAJ11CAHE3 A/H
SMA5J26CAHM3/I	SMA5J26CAHM3 A/I	SMA5J7.0AHM3/H	SMA5J7.0AHM3 A/H	SMAJ11CAHE3/H	SMAJ11CAHE3 A/H
SMA5J28AHE3/5A	SMA5J28AHE3 A/I	SMA5J7.0AHM3/I	SMA5J7.0AHM3 A/I	SMAJ11CAHM3/H	SMAJ11CAHM3 A/H
SMA5J28AHE3/61	SMA5J28AHE3 A/H	SMA5J7.0CAHE3/5A	SMA5J7.0CAHE3 A/I	SMAJ11CAHM3/I	SMAJ11CAHM3 A/I
SMA5J28AHE3/H	SMA5J28AHE3 A/H	SMA5J7.0CAHE3/61	SMA5J7.0CAHE3 A/H	SMAJ120AHE3/5A	SMAJ120AHE3 A/I
SMA5J28AHE3/I	SMA5J28AHE3 A/I	SMA5J7.0CAHE3/H	SMA5J7.0CAHE3 A/H	SMAJ120AHE3/61	SMAJ120AHE3 A/H
SMA5J28AHM3/H	SMA5J28AHM3 A/H	SMA5J7.0CAHM3/H	SMA5J7.0CAHM3 A/H	SMAJ120AHE3/H	SMAJ120AHE3 A/H
SMA5J28AHM3/I	SMA5J28AHM3 A/I	SMA5J7.0CAHM3/I	SMA5J7.0CAHM3 A/I	SMAJ120AHM3/H	SMAJ120AHM3 A/H
SMA5J28CAHE3/5A	SMA5J28CAHE3 A/I	SMA5J7.5AHE3/5A	SMA5J7.5AHE3 A/I	SMAJ120AHM3/I	SMAJ120AHM3 A/I
SMA5J28CAHE3/61	SMA5J28CAHE3 A/H	SMA5J7.5AHE3/61	SMA5J7.5AHE3 A/H	SMAJ120CAHE3/5A	SMAJ120CAHE3 A/I
SMA5J28CAHM3/H	SMA5J28CAHM3 A/H	SMA5J7.5AHE3/H	SMA5J7.5AHE3 A/H	SMAJ120CAHE3/61	SMAJ120CAHE3 A/H
SMA5J28CAHM3/I	SMA5J28CAHM3 A/I	SMA5J7.5AHM3/H	SMA5J7.5AHM3 A/H	SMAJ120CAHE3/H	SMAJ120CAHE3 A/H
SMA5J30AHE3/5A	SMA5J30AHE3 A/I	SMA5J7.5AHM3/I	SMA5J7.5AHM3 A/I	SMAJ120CAHM3/I	SMAJ120CAHM3 A/I
SMA5J30AHE3/61	SMA5J30AHE3 A/H	SMA5J7.5CAHE3/5A	SMA5J7.5CAHE3 A/I	SMAJ120CAHM3/H	SMAJ120CAHM3 A/H
SMA5J30AHE3/H	SMA5J30AHE3 A/H	SMA5J7.5CAHE3/61	SMA5J7.5CAHE3 A/H	SMAJ12AHE3/5A	SMAJ12AHE3 A/I
SMA5J30AHE3/I	SMA5J30AHE3 A/I	SMA5J7.5CAHE3/H	SMA5J7.5CAHE3 A/H	SMAJ12AHE3/61	SMAJ12AHE3 A/H
SMA5J30AHM3/H	SMA5J30AHM3 A/H	SMA5J7.5CAHM3/H	SMA5J7.5CAHM3 A/H	SMAJ12AHE3/H	SMAJ12AHE3 A/H
SMA5J30AHM3/I	SMA5J30AHM3 A/I	SMA5J7.5CAHM3/I	SMA5J7.5CAHM3 A/I	SMAJ12AHM3/H	SMAJ12AHM3 A/H
SMA5J30CAHE3/5A	SMA5J30CAHE3 A/I	SMA5J8.0AHE3/5A	SMA5J8.0AHE3 A/I	SMAJ12AHM3/I	SMAJ12AHM3 A/I
SMA5J30CAHE3/61	SMA5J30CAHE3 A/H	SMA5J8.0AHE3/61	SMA5J8.0AHE3 A/H	SMAJ12CAHE3/5A	SMAJ12CAHE3 A/I
SMA5J30CAHM3/H	SMA5J30CAHM3 A/H	SMA5J8.0AHE3/H	SMA5J8.0AHE3 A/H	SMAJ12CAHE3/61	SMAJ12CAHE3 A/H
SMA5J30CAHM3/I	SMA5J30CAHM3 A/I	SMA5J8.0AHM3/H	SMA5J8.0AHM3 A/H	SMAJ12CAHE3/H	SMAJ12CAHE3 A/H
SMA5J33AHE3/5A	SMA5J33AHE3 A/I	SMA5J8.0AHM3/I	SMA5J8.0AHM3 A/I	SMAJ12CAHM3/H	SMAJ12CAHM3 A/H
		SMA5J8.0CAHE3/5A	SMA5J8.0CAHE3 A/I	SMAJ12CAHM3/I	SMAJ12CAHM3 A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMAJ12CAHM3P/H	SMAJ12CAHM3P A/H	SMAJ17AHE3/5A	SMAJ17AHE3 A/I	SMAJ30AHE3/61	SMAJ30AHE3 A/H
SMAJ12CAHM3P/I	SMAJ12CAHM3P A/I	SMAJ17AHE3/61	SMAJ17AHE3 A/H	SMAJ30AHM3/H	SMAJ30AHM3 A/H
SMAJ130AHE3/5A	SMAJ130AHE3 A/I	SMAJ17AHM3/H	SMAJ17AHM3 A/H	SMAJ30AHM3/I	SMAJ30AHM3 A/I
SMAJ130AHE3/61	SMAJ130AHE3 A/H	SMAJ17AHM3/I	SMAJ17AHM3 A/I	SMAJ30C-4HE3/5A	SMAJ30C-4HE3 A/I
SMAJ130AHM3/H	SMAJ130AHM3 A/H	SMAJ17CAHE3/5A	SMAJ17CAHE3 A/I	SMAJ30C-4HM3/I	SMAJ30C-4HM3 A/I
SMAJ130AHM3/I	SMAJ130AHM3 A/I	SMAJ17CAHE3/61	SMAJ17CAHE3 A/H	SMAJ30CAHE3/5A	SMAJ30CAHE3 A/I
SMAJ130CAHE3/5A	SMAJ130CAHE3 A/I	SMAJ17CAHM3/H	SMAJ17CAHM3 A/H	SMAJ30CAHE3/61	SMAJ30CAHE3 A/H
SMAJ130CAHE3/61	SMAJ130CAHE3 A/H	SMAJ17CAHM3/I	SMAJ17CAHM3 A/I	SMAJ30CAHM3/H	SMAJ30CAHM3 A/H
SMAJ130CAHM3/H	SMAJ130CAHM3 A/H	SMAJ188AHE3/5A	SMAJ188AHE3 A/I	SMAJ30CAHM3/I	SMAJ30CAHM3 A/I
SMAJ130CAHM3/I	SMAJ130CAHM3 A/I	SMAJ188AHE3/61	SMAJ188AHE3 A/H	SMAJ33AHE3/5A	SMAJ33AHE3 A/I
SMAJ13AHE3/5A	SMAJ13AHE3 A/I	SMAJ188AHM3/H	SMAJ188AHM3 A/H	SMAJ33AHE3/61	SMAJ33AHE3 A/H
SMAJ13AHE3/61	SMAJ13AHE3 A/H	SMAJ188AHM3/I	SMAJ188AHM3 A/I	SMAJ33AHM3/H	SMAJ33AHM3 A/H
SMAJ13AHM3/H	SMAJ13AHM3 A/H	SMAJ188CAHE3/5A	SMAJ188CAHE3 A/I	SMAJ33AHM3/I	SMAJ33AHM3 A/I
SMAJ13AHM3/I	SMAJ13AHM3 A/I	SMAJ188CAHE3/61	SMAJ188CAHE3 A/H	SMAJ33CAHE3/5A	SMAJ33CAHE3 A/I
SMAJ13CAHE3/5A	SMAJ13CAHE3 A/H	SMAJ188CAHM3/H	SMAJ188CAHM3 A/H	SMAJ33CAHE3/61	SMAJ33CAHE3 A/H
SMAJ13CAHE3/61	SMAJ13CAHE3 A/I	SMAJ188CAHM3/I	SMAJ188CAHM3 A/I	SMAJ33CAHM3/H	SMAJ33CAHM3 A/H
SMAJ13CAHM3/H	SMAJ13CAHM3 A/H	SMAJ188CAHM3P/H	SMAJ188CAHM3P A/H	SMAJ33CAHM3/I	SMAJ33CAHM3 A/I
SMAJ13CAHM3/I	SMAJ13CAHM3 A/I	SMAJ188CAHM3P/I	SMAJ188CAHM3P A/I	SMAJ36AHE3/5A	SMAJ36AHE3 A/I
SMAJ14AHE3/5A	SMAJ14AHE3 A/I	SMAJ18AHE3/5A	SMAJ18AHE3 A/H	SMAJ36AHE3/61	SMAJ36AHE3 A/H
SMAJ14AHE3/61	SMAJ14AHE3 A/H	SMAJ18AHE3/61	SMAJ18AHE3 A/I	SMAJ36AHM3/H	SMAJ36AHM3 A/H
SMAJ14AHM3/H	SMAJ14AHM3 A/H	SMAJ18AHM3/H	SMAJ18AHM3 A/H	SMAJ36AHM3/I	SMAJ36AHM3 A/I
SMAJ14AHM3/I	SMAJ14AHM3 A/I	SMAJ18AHM3/I	SMAJ18AHM3 A/I	SMAJ36CAHE3/5A	SMAJ36CAHE3 A/I
SMAJ14CAHE3/5A	SMAJ14CAHE3 A/I	SMAJ18CAHE3/5A	SMAJ18CAHE3 A/H	SMAJ36CAHE3/61	SMAJ36CAHE3 A/H
SMAJ14CAHE3/61	SMAJ14CAHE3 A/H	SMAJ18CAHE3/61	SMAJ18CAHE3 A/I	SMAJ36CAHM3/H	SMAJ36CAHM3 A/H
SMAJ14CAHM3/H	SMAJ14CAHM3 A/H	SMAJ18CAHM3/H	SMAJ18CAHM3 A/H	SMAJ36CAHM3/I	SMAJ36CAHM3 A/I
SMAJ14CAHM3/I	SMAJ14CAHM3 A/I	SMAJ18CAHM3/I	SMAJ18CAHM3 A/I	SMAJ40AHE3/5A	SMAJ40AHE3 A/I
SMAJ150AHE3/5A	SMAJ150AHE3 A/I	SMAJ20AHE3/5A	SMAJ20AHE3 A/H	SMAJ40AHE3/61	SMAJ40AHE3 A/H
SMAJ150AHE3/61	SMAJ150AHE3 A/H	SMAJ20AHE3/61	SMAJ20AHE3 A/I	SMAJ40AHM3/H	SMAJ40AHM3 A/H
SMAJ150AHM3/H	SMAJ150AHM3 A/H	SMAJ20AHM3/H	SMAJ20AHM3 A/H	SMAJ40AHM3/I	SMAJ40AHM3 A/I
SMAJ150AHM3/I	SMAJ150AHM3 A/I	SMAJ20AHM3/I	SMAJ20AHM3 A/I	SMAJ40CAHE3/5A	SMAJ40CAHE3 A/I
SMAJ150CAHE3/5A	SMAJ150CAHE3 A/I	SMAJ20CAHE3/5A	SMAJ20CAHE3 A/H	SMAJ40CAHE3/61	SMAJ40CAHE3 A/H
SMAJ150CAHE3/61	SMAJ150CAHE3 A/H	SMAJ20CAHE3/61	SMAJ20CAHE3 A/I	SMAJ40CAHM3/H	SMAJ40CAHM3 A/H
SMAJ150CAHM3/H	SMAJ150CAHM3 A/H	SMAJ20CAHM3/H	SMAJ20CAHM3 A/H	SMAJ40CAHM3/I	SMAJ40CAHM3 A/I
SMAJ150CAHM3/I	SMAJ150CAHM3 A/I	SMAJ20CAHM3/I	SMAJ20CAHM3 A/I	SMAJ43AHE3/5A	SMAJ43AHE3 A/I
SMAJ15AHE3/5A	SMAJ15AHE3 A/I	SMAJ22AHE3/5A	SMAJ22AHE3 A/H	SMAJ43AHE3/61	SMAJ43AHE3 A/H
SMAJ15AHE3/61	SMAJ15AHE3 A/H	SMAJ22AHE3/61	SMAJ22AHE3 A/I	SMAJ43AHM3/H	SMAJ43AHM3 A/H
SMAJ15AHM3/H	SMAJ15AHM3 A/H	SMAJ22AHM3/H	SMAJ22AHM3 A/H	SMAJ43AHM3/I	SMAJ43AHM3 A/I
SMAJ15AHM3/I	SMAJ15AHM3 A/I	SMAJ22AHM3/I	SMAJ22AHM3 A/I	SMAJ43CAHE3/5A	SMAJ43CAHE3 A/I
SMAJ15CAHE3/5A	SMAJ15CAHE3 A/H	SMAJ22CAHE3/5A	SMAJ22CAHE3 A/H	SMAJ43CAHE3/61	SMAJ43CAHE3 A/H
SMAJ15CAHE3/61	SMAJ15CAHE3 A/I	SMAJ22CAHE3/61	SMAJ22CAHE3 A/I	SMAJ43CAHM3/H	SMAJ43CAHM3 A/H
SMAJ15CAHM3/H	SMAJ15CAHM3 A/H	SMAJ22CAHM3/H	SMAJ22CAHM3 A/H	SMAJ43CAHM3/I	SMAJ43CAHM3 A/I
SMAJ15CAHM3/I	SMAJ15CAHM3 A/I	SMAJ22CAHM3/I	SMAJ22CAHM3 A/I	SMAJ45AHE3/5A	SMAJ45AHE3 A/I
SMAJ160AHE3/5A	SMAJ160AHE3 A/I	SMAJ24AHE3/5A	SMAJ24AHE3 A/H	SMAJ45AHE3/61	SMAJ45AHE3 A/H
SMAJ160AHE3/61	SMAJ160AHE3 A/H	SMAJ24AHE3/61	SMAJ24AHE3 A/I	SMAJ45AHM3/H	SMAJ45AHM3 A/H
SMAJ160AHM3/H	SMAJ160AHM3 A/H	SMAJ24AHM3/H	SMAJ24AHM3 A/H	SMAJ45AHM3/I	SMAJ45AHM3 A/I
SMAJ160AHM3/I	SMAJ160AHM3 A/I	SMAJ24AHM3/I	SMAJ24AHM3 A/I	SMAJ45CAHE3/5A	SMAJ45CAHE3 A/I
SMAJ160CAHE3/5A	SMAJ160CAHE3 A/I	SMAJ24CAHE3/5A	SMAJ24CAHE3 A/H	SMAJ45CAHE3/61	SMAJ45CAHE3 A/H
SMAJ160CAHE3/61	SMAJ160CAHE3 A/H	SMAJ24CAHE3/61	SMAJ24CAHE3 A/I	SMAJ45CAHM3/H	SMAJ45CAHM3 A/H
SMAJ160CAHM3/H	SMAJ160CAHM3 A/H	SMAJ24CAHM3/H	SMAJ24CAHM3 A/H	SMAJ45CAHM3/I	SMAJ45CAHM3 A/I
SMAJ160CAHM3/I	SMAJ160CAHM3 A/I	SMAJ24CAHM3/I	SMAJ24CAHM3 A/I	SMAJ48AHE3/5A	SMAJ48AHE3 A/I
SMAJ16AHE3/5A	SMAJ16AHE3 A/I	SMAJ26AHE3/5A	SMAJ26AHE3 A/H	SMAJ48AHE3/61	SMAJ48AHE3 A/H
SMAJ16AHE3/61	SMAJ16AHE3 A/H	SMAJ26AHE3/61	SMAJ26AHE3 A/I	SMAJ48AHM3/H	SMAJ48AHM3 A/H
SMAJ16AHM3/H	SMAJ16AHM3 A/H	SMAJ26AHM3/H	SMAJ26AHM3 A/H	SMAJ48AHM3/I	SMAJ48AHM3 A/I
SMAJ16AHM3/I	SMAJ16AHM3 A/I	SMAJ26AHM3/I	SMAJ26AHM3 A/I	SMAJ48CAHE3/5A	SMAJ48CAHE3 A/I
SMAJ16CA-001HE3/61	SMAJ16CA-01HE3 A/H	SMAJ26CAHE3/5A	SMAJ26CAHE3 A/H	SMAJ48CAHE3/61	SMAJ48CAHE3 A/H
SMAJ16CA-001HM3/H	SMAJ16CA-01HM3 A/H	SMAJ26CAHE3/61	SMAJ26CAHE3 A/I	SMAJ48CAHM3/H	SMAJ48CAHM3 A/H
SMAJ16CAHE3/5A	SMAJ16CAHE3 A/I	SMAJ26CAHM3/H	SMAJ26CAHM3 A/H	SMAJ48CAHM3/I	SMAJ48CAHM3 A/I
SMAJ16CAHE3/61	SMAJ16CAHE3 A/H	SMAJ26CAHM3/I	SMAJ26CAHM3 A/I	SMAJ5.0AHE3/5A	SMAJ5.0AHE3 A/I
SMAJ16CAHM3/H	SMAJ16CAHM3 A/H	SMAJ28AHE3/5A	SMAJ28AHE3 A/H	SMAJ5.0AHE3/61	SMAJ5.0AHE3 A/H
SMAJ16CAHM3/I	SMAJ16CAHM3 A/I	SMAJ28AHE3/61	SMAJ28AHE3 A/I	SMAJ5.0AHM3/H	SMAJ5.0AHM3 A/H
SMAJ170AHE3/5A	SMAJ170AHE3 A/I	SMAJ28AHM3/H	SMAJ28AHM3 A/H	SMAJ5.0AHM3/I	SMAJ5.0AHM3 A/I
SMAJ170AHE3/61	SMAJ170AHE3 A/H	SMAJ28AHM3/I	SMAJ28AHM3 A/I	SMAJ5.0CAHE3/5A	SMAJ5.0CAHE3 A/I
SMAJ170AHM3/H	SMAJ170AHM3 A/H	SMAJ28CA-61HM3J/H	SMAJ28CA61HM3J A/H	SMAJ5.0CAHE3/61	SMAJ5.0CAHE3 A/H
SMAJ170AHM3/I	SMAJ170AHM3 A/I	SMAJ28CAHE3/5A	SMAJ28CAHE3 A/I	SMAJ5.0CAHM3/H	SMAJ5.0CAHM3 A/H
SMAJ170CAHE3/5A	SMAJ170CAHE3 A/H	SMAJ28CAHE3/61	SMAJ28CAHE3 A/H	SMAJ5.0CAHM3/I	SMAJ5.0CAHM3 A/I
SMAJ170CAHE3/61	SMAJ170CAHE3 A/I	SMAJ28CAHM3/H	SMAJ28CAHM3 A/H	SMAJ51AHE3/5A	SMAJ51AHE3 A/I
SMAJ170CAHM3/H	SMAJ170CAHM3 A/H	SMAJ28CAHM3/I	SMAJ28CAHM3 A/I	SMAJ51AHE3/61	SMAJ51AHE3 A/H
SMAJ170CAHM3/I	SMAJ170CAHM3 A/I	SMAJ30AHE3/5A	SMAJ30AHE3 A/I	SMAJ51AHM3/H	SMAJ51AHM3 A/H



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMAJ51AHM3/I	SMAJ51AHM3_A/I	SMAJ7.5AHE3/61	SMAJ7.5AHE3_A/H	SMAJ90AHE3/61	SMAJ90AHE3_A/H
SMAJ51CAHE3/5A	SMAJ51CAHE3_A/I	SMAJ7.5AHM3/H	SMAJ7.5AHM3_A/H	SMAJ90AHM3/H	SMAJ90AHM3_A/H
SMAJ51CAHE3/61	SMAJ51CAHE3_A/H	SMAJ7.5AHM3/I	SMAJ7.5AHM3_A/I	SMAJ90AHM3/I	SMAJ90AHM3_A/I
SMAJ51CAHM3/H	SMAJ51CAHM3_A/H	SMAJ7.5CAHE3/5A	SMAJ7.5CAHE3_A/I	SMAJ90CAHE3/5A	SMAJ90CAHE3_A/I
SMAJ51CAHM3/I	SMAJ51CAHM3_A/I	SMAJ7.5CAHE3/61	SMAJ7.5CAHE3_A/H	SMAJ90CAHE3/61	SMAJ90CAHE3_A/H
SMAJ530HM3_A/H	SMAJ530HM3_B/H	SMAJ7.5CAHM3/H	SMAJ7.5CAHM3_A/H	SMAJ90CAHM3/H	SMAJ90CAHM3_A/H
SMAJ530HM3_A/I	SMAJ530HM3_B/I	SMAJ7.5CAHM3/I	SMAJ7.5CAHM3_A/I	SMAJ90CAHM3/I	SMAJ90CAHM3_A/I
SMAJ54AHE3/5A	SMAJ54AHE3_A/I	SMAJ70AHE3/5A	SMAJ70AHE3_A/I	SML4738AHE3/5A	SML4738AHE3_A/I
SMAJ54AHE3/61	SMAJ54AHE3_A/H	SMAJ70AHE3/61	SMAJ70AHE3_A/H	SML4738AHE3/61	SML4738AHE3_A/H
SMAJ54AHM3/H	SMAJ54AHM3_A/H	SMAJ70AHM3/H	SMAJ70AHM3_A/H	SML4738HE3/5A	SML4738HE3_A/I
SMAJ54AHM3/I	SMAJ54AHM3_A/I	SMAJ70AHM3/I	SMAJ70AHM3_A/I	SML4738HE3/61	SML4738HE3_A/H
SMAJ54CAHE3/5A	SMAJ54CAHE3_A/I	SMAJ70CAHE3/5A	SMAJ70CAHE3_A/I	SML4739AHE3/5A	SML4739AHE3_A/I
SMAJ54CAHE3/61	SMAJ54CAHE3_A/H	SMAJ70CAHE3/61	SMAJ70CAHE3_A/H	SML4739AHE3/61	SML4739AHE3_A/H
SMAJ54CAHM3/H	SMAJ54CAHM3_A/H	SMAJ70CAHM3/H	SMAJ70CAHM3_A/H	SML4739HE3/5A	SML4739HE3_A/I
SMAJ54CAHM3/I	SMAJ54CAHM3_A/I	SMAJ70CAHM3/I	SMAJ70CAHM3_A/I	SML4739HE3/61	SML4739HE3_A/H
SMAJ550HM3_A/H	SMAJ550HM3_B/H	SMAJ70CAHM3P/H	SMAJ70CAHM3P_A/H	SML4740AHE3/5A	SML4740AHE3_A/I
SMAJ550HM3_A/I	SMAJ550HM3_B/I	SMAJ70CAHM3P/I	SMAJ70CAHM3P_A/I	SML4740AHE3/61	SML4740AHE3_A/H
SMAJ58AHE3/5A	SMAJ58AHE3_A/I	SMAJ75AHE3/5A	SMAJ75AHE3_A/I	SML4740HE3/5A	SML4740HE3_A/I
SMAJ58AHE3/61	SMAJ58AHE3_A/H	SMAJ75AHE3/61	SMAJ75AHE3_A/H	SML4740HE3/61	SML4740HE3_A/H
SMAJ58AHM3/H	SMAJ58AHM3_A/H	SMAJ75AHM3/H	SMAJ75AHM3_A/H	SML4741AHE3/5A	SML4741AHE3_A/I
SMAJ58AHM3/I	SMAJ58AHM3_A/I	SMAJ75AHM3/I	SMAJ75AHM3_A/I	SML4741AHE3/61	SML4741AHE3_A/H
SMAJ58CAHE3/5A	SMAJ58CAHE3_A/I	SMAJ75CA001HE3/5A	SMAJ75CA001HE3_A/I	SML4741HE3/5A	SML4741HE3_A/I
SMAJ58CAHE3/61	SMAJ58CAHE3_A/H	SMAJ75CA001HM3/I	SMAJ75CA001HM3_A/I	SML4741HE3/61	SML4741HE3_A/H
SMAJ58CAHM3/H	SMAJ58CAHM3_A/H	SMAJ75CAHE3/5A	SMAJ75CAHE3_A/I	SML4742AHE3/5A	SML4742AHE3_A/I
SMAJ58CAHM3/I	SMAJ58CAHM3_A/I	SMAJ75CAHE3/61	SMAJ75CAHE3_A/H	SML4742AHE3/61	SML4742AHE3_A/H
SMAJ58CAHM3P/H	SMAJ58CAHM3P_A/H	SMAJ75CAHM3/H	SMAJ75CAHM3_A/H	SML4742HE3/5A	SML4742HE3_A/I
SMAJ58CAHM3P/I	SMAJ58CAHM3P_A/I	SMAJ75CAHM3/I	SMAJ75CAHM3_A/I	SML4742HE3/61	SML4742HE3_A/H
SMAJ6.0AHE3/5A	SMAJ6.0AHE3_A/I	SMAJ78AHE3/5A	SMAJ78AHE3_A/I	SML4743AHE3/5A	SML4743AHE3_A/I
SMAJ6.0AHE3/61	SMAJ6.0AHE3_A/H	SMAJ78AHE3/61	SMAJ78AHE3_A/H	SML4743AHE3/61	SML4743AHE3_A/H
SMAJ6.0AHM3/H	SMAJ6.0AHM3_A/H	SMAJ78AHM3/H	SMAJ78AHM3_A/H	SML4743HE3/5A	SML4743HE3_A/I
SMAJ6.0AHM3/I	SMAJ6.0AHM3_A/I	SMAJ78AHM3/I	SMAJ78AHM3_A/I	SML4743HE3/61	SML4743HE3_A/H
SMAJ6.0CAHE3/5A	SMAJ6.0CAHE3_A/I	SMAJ78CAHE3/5A	SMAJ78CAHE3_A/I	SML4744AHE3/5A	SML4744AHE3_A/I
SMAJ6.0CAHE3/61	SMAJ6.0CAHE3_A/H	SMAJ78CAHE3/61	SMAJ78CAHE3_A/H	SML4744AHE3/61	SML4744AHE3_A/H
SMAJ6.0CAHM3/H	SMAJ6.0CAHM3_A/H	SMAJ78CAHM3/H	SMAJ78CAHM3_A/H	SML4744HE3/5A	SML4744HE3_A/I
SMAJ6.0CAHM3/I	SMAJ6.0CAHM3_A/I	SMAJ78CAHM3/I	SMAJ78CAHM3_A/I	SML4744HE3/61	SML4744HE3_A/H
SMAJ6.5AHE3/5A	SMAJ6.5AHE3_A/I	SMAJ8.0AHE3/5A	SMAJ8.0AHE3_A/I	SML4745AHE3/5A	SML4745AHE3_A/I
SMAJ6.5AHE3/61	SMAJ6.5AHE3_A/H	SMAJ8.0AHE3/61	SMAJ8.0AHE3_A/H	SML4745AHE3/61	SML4745AHE3_A/H
SMAJ6.5AHM3/H	SMAJ6.5AHM3_A/H	SMAJ8.0AHM3/H	SMAJ8.0AHM3_A/H	SML4745HE3/5A	SML4745HE3_A/I
SMAJ6.5AHM3/I	SMAJ6.5AHM3_A/I	SMAJ8.0AHM3/I	SMAJ8.0AHM3_A/I	SML4745HE3/61	SML4745HE3_A/H
SMAJ6.5CAHE3/5A	SMAJ6.5CAHE3_A/I	SMAJ8.0CAHE3/5A	SMAJ8.0CAHE3_A/I	SML4746AHE3/5A	SML4746AHE3_A/I
SMAJ6.5CAHE3/61	SMAJ6.5CAHE3_A/H	SMAJ8.0CAHE3/61	SMAJ8.0CAHE3_A/H	SML4746AHE3/61	SML4746AHE3_A/H
SMAJ6.5CAHM3/H	SMAJ6.5CAHM3_A/H	SMAJ8.0CAHM3/H	SMAJ8.0CAHM3_A/H	SML4746HE3/5A	SML4746HE3_A/I
SMAJ6.5CAHM3/I	SMAJ6.5CAHM3_A/I	SMAJ8.0CAHM3/I	SMAJ8.0CAHM3_A/I	SML4746HE3/61	SML4746HE3_A/H
SMAJ60AHE3/5A	SMAJ60AHE3_A/I	SMAJ8.5AHE3/5A	SMAJ8.5AHE3_A/I	SML4747AHE3/5A	SML4747AHE3_A/I
SMAJ60AHE3/61	SMAJ60AHE3_A/H	SMAJ8.5AHE3/61	SMAJ8.5AHE3_A/H	SML4747AHE3/61	SML4747AHE3_A/H
SMAJ60AHM3/H	SMAJ60AHM3_A/H	SMAJ8.5AHM3/H	SMAJ8.5AHM3_A/H	SML4747HE3/5A	SML4747HE3_A/I
SMAJ60AHM3/I	SMAJ60AHM3_A/I	SMAJ8.5AHM3/I	SMAJ8.5AHM3_A/I	SML4747HE3/61	SML4747HE3_A/H
SMAJ60CAHE3/5A	SMAJ60CAHE3_A/I	SMAJ8.5CAHE3/5A	SMAJ8.5CAHE3_A/I	SML4748AHE3/5A	SML4748AHE3_A/I
SMAJ60CAHE3/61	SMAJ60CAHE3_A/H	SMAJ8.5CAHE3/61	SMAJ8.5CAHE3_A/H	SML4748AHE3/61	SML4748AHE3_A/H
SMAJ60CAHM3/H	SMAJ60CAHM3_A/H	SMAJ8.5CAHM3/H	SMAJ8.5CAHM3_A/H	SML4748HE3/5A	SML4748HE3_A/I
SMAJ60CAHM3/I	SMAJ60CAHM3_A/I	SMAJ8.5CAHM3/I	SMAJ8.5CAHM3_A/I	SML4748HE3/61	SML4748HE3_A/H
SMAJ64AHE3/5A	SMAJ64AHE3_A/I	SMAJ85AHE3/5A	SMAJ85AHE3_A/I	SML4749AHE3/5A	SML4749AHE3_A/I
SMAJ64AHE3/61	SMAJ64AHE3_A/H	SMAJ85AHE3/61	SMAJ85AHE3_A/H	SML4749AHE3/61	SML4749AHE3_A/H
SMAJ64AHM3/H	SMAJ64AHM3_A/H	SMAJ85AHM3/H	SMAJ85AHM3_A/H	SML4749HE3/5A	SML4749HE3_A/I
SMAJ64AHM3/I	SMAJ64AHM3_A/I	SMAJ85AHM3/I	SMAJ85AHM3_A/I	SML4749HE3/61	SML4749HE3_A/H
SMAJ64CAHE3/5A	SMAJ64CAHE3_A/I	SMAJ85CAHE3/5A	SMAJ85CAHE3_A/I	SML4750AHE3/5A	SML4750AHE3_A/I
SMAJ64CAHE3/61	SMAJ64CAHE3_A/H	SMAJ85CAHE3/61	SMAJ85CAHE3_A/H	SML4750AHE3/61	SML4750AHE3_A/H
SMAJ64CAHM3/H	SMAJ64CAHM3_A/H	SMAJ85CAHM3/H	SMAJ85CAHM3_A/H	SML4750HE3/5A	SML4750HE3_A/I
SMAJ64CAHM3/I	SMAJ64CAHM3_A/I	SMAJ85CAHM3/I	SMAJ85CAHM3_A/I	SML4750HE3/61	SML4750HE3_A/H
SMAJ7.0AHE3/5A	SMAJ7.0AHE3_A/I	SMAJ9.0AHE3/5A	SMAJ9.0AHE3_A/I	SML4751AHE3/5A	SML4751AHE3_A/I
SMAJ7.0AHE3/61	SMAJ7.0AHE3_A/H	SMAJ9.0AHE3/61	SMAJ9.0AHE3_A/H	SML4751AHE3/61	SML4751AHE3_A/H
SMAJ7.0AHM3/H	SMAJ7.0AHM3_A/H	SMAJ9.0AHM3/H	SMAJ9.0AHM3_A/H	SML4751HE3/5A	SML4751HE3_A/I
SMAJ7.0AHM3/I	SMAJ7.0AHM3_A/I	SMAJ9.0AHM3/I	SMAJ9.0AHM3_A/I	SML4751HE3/61	SML4751HE3_A/H
SMAJ7.0CAHE3/5A	SMAJ7.0CAHE3_A/I	SMAJ9.0CAHE3/5A	SMAJ9.0CAHE3_A/I	SML4752AHE3/5A	SML4752AHE3_A/I
SMAJ7.0CAHE3/61	SMAJ7.0CAHE3_A/H	SMAJ9.0CAHE3/61	SMAJ9.0CAHE3_A/H	SML4752AHE3/61	SML4752AHE3_A/H
SMAJ7.0CAHM3/H	SMAJ7.0CAHM3_A/H	SMAJ9.0CAHM3/H	SMAJ9.0CAHM3_A/H	SML4752HE3/5A	SML4752HE3_A/I
SMAJ7.0CAHM3/I	SMAJ7.0CAHM3_A/I	SMAJ9.0CAHM3/I	SMAJ9.0CAHM3_A/I	SML4752HE3/61	SML4752HE3_A/H
SMAJ7.5AHE3/5A	SMAJ7.5AHE3_A/I	SMAJ90AHE3/5A	SMAJ90AHE3_A/I	SML4753AHE3/5A	SML4753AHE3_A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SML4753AEH3/61	SML4753AEH3_A/H	P6SMB110CAHE3/5B	P6SMB110CAHE3_A/I	P6SMB16AEH3/5B	P6SMB16AEH3_A/I
SML4753HE3/5A	SML4753HE3_A/I	P6SMB110CAHM3/H	P6SMB110CAHM3_A/H	P6SMB16AHM3/H	P6SMB16AHM3_A/H
SML4753HE3/61	SML4753HE3_A/H	P6SMB110CAHM3/I	P6SMB110CAHM3_A/I	P6SMB16AHM3/I	P6SMB16AHM3_A/I
SML4754AEH3/5A	SML4754AEH3_A/I	P6SMB111AEH3/52	P6SMB111AEH3_A/H	P6SMB16CAHE3/52	P6SMB16CAHE3_A/H
SML4754AEH3/61	SML4754AEH3_A/H	P6SMB111AEH3/5B	P6SMB111AEH3_A/I	P6SMB16CAHE3/5B	P6SMB16CAHE3_A/I
SML4754AEH3/5A	SML4754AEH3_A/I	P6SMB111AHM3/H	P6SMB111AHM3_A/H	P6SMB16CAHM3/H	P6SMB16CAHM3_A/H
SML4754HE3/61	SML4754HE3_A/H	P6SMB111AHM3/I	P6SMB111AHM3_A/I	P6SMB16CAHM3/I	P6SMB16CAHM3_A/I
SML4755AEH3/5A	SML4755AEH3_A/I	P6SMB111CAHE3/52	P6SMB111CAHE3_A/H	P6SMB170AEH3/52	P6SMB170AEH3_A/H
SML4755AEH3/61	SML4755AEH3_A/H	P6SMB111CAHE3/5B	P6SMB111CAHE3_A/I	P6SMB170AEH3/5B	P6SMB170AEH3_A/I
SML4755HE3/5A	SML4755HE3_A/I	P6SMB111CAHM3/H	P6SMB111CAHM3_A/H	P6SMB170AHM3/H	P6SMB170AHM3_A/H
SML4755HE3/61	SML4755HE3_A/H	P6SMB111CAHM3/I	P6SMB111CAHM3_A/I	P6SMB170AHM3/I	P6SMB170AHM3_A/I
SML4756AEH3/5A	SML4756AEH3_A/I	P6SMB120AEH3/52	P6SMB120AEH3_A/H	P6SMB170CAHE3/52	P6SMB170CAHE3_A/H
SML4756AEH3/61	SML4756AEH3_A/H	P6SMB120AEH3/5B	P6SMB120AEH3_A/I	P6SMB170CAHE3/5B	P6SMB170CAHE3_A/I
SML4756HE3/5A	SML4756HE3_A/I	P6SMB120AHM3/H	P6SMB120AHM3_A/H	P6SMB170CAHM3/H	P6SMB170CAHM3_A/H
SML4756HE3/61	SML4756HE3_A/H	P6SMB120AHM3/I	P6SMB120AHM3_A/I	P6SMB170CAHM3/I	P6SMB170CAHM3_A/I
SML4757AEH3/5A	SML4757AEH3_A/I	P6SMB120CAHE3/52	P6SMB120CAHE3_A/H	P6SMB180AEH3/52	P6SMB180AEH3_A/H
SML4757AEH3/61	SML4757AEH3_A/H	P6SMB120CAHE3/5B	P6SMB120CAHE3_A/I	P6SMB180AEH3/5B	P6SMB180AEH3_A/I
SML4757HE3/5A	SML4757HE3_A/I	P6SMB120CAHM3/H	P6SMB120CAHM3_A/H	P6SMB180AHM3/H	P6SMB180AHM3_A/H
SML4757HE3/61	SML4757HE3_A/H	P6SMB120CAHM3/I	P6SMB120CAHM3_A/I	P6SMB180AHM3/I	P6SMB180AHM3_A/I
SML4758AEH3/5A	SML4758AEH3_A/I	P6SMB121AEH3/52	P6SMB121AEH3_A/H	P6SMB180CAHE3/52	P6SMB180CAHE3_A/H
SML4758AEH3/61	SML4758AEH3_A/H	P6SMB121AEH3/5B	P6SMB121AEH3_A/I	P6SMB180CAHE3/5B	P6SMB180CAHE3_A/I
SML4758HE3/5A	SML4758HE3_A/I	P6SMB121AHM3/H	P6SMB121AHM3_A/H	P6SMB180CAHM3/H	P6SMB180CAHM3_A/H
SML4758HE3/61	SML4758HE3_A/H	P6SMB121AHM3/I	P6SMB121AHM3_A/I	P6SMB180CAHM3/I	P6SMB180CAHM3_A/I
SML4759AEH3/5A	SML4759AEH3_A/I	P6SMB122CAHE3/52	P6SMB122CAHE3_A/H	P6SMB18AEH3/52	P6SMB18AEH3_A/H
SML4759AEH3/61	SML4759AEH3_A/H	P6SMB122CAHE3/5B	P6SMB122CAHE3_A/I	P6SMB18AEH3/5B	P6SMB18AEH3_A/I
SML4759HE3/5A	SML4759HE3_A/I	P6SMB122CAHM3/H	P6SMB122CAHM3_A/H	P6SMB18AHM3/H	P6SMB18AHM3_A/H
SML4759HE3/61	SML4759HE3_A/H	P6SMB122CAHM3/I	P6SMB122CAHM3_A/I	P6SMB18AHM3/I	P6SMB18AHM3_A/I
SML4760AEH3/5A	SML4760AEH3_A/I	P6SMB130AEH3/52	P6SMB130AEH3_A/H	P6SMB18CAHE3/52	P6SMB18CAHE3_A/H
SML4760AEH3/61	SML4760AEH3_A/H	P6SMB130AEH3/5B	P6SMB130AEH3_A/I	P6SMB18CAHE3/5B	P6SMB18CAHE3_A/I
SML4760HE3/5A	SML4760HE3_A/I	P6SMB130AHM3/H	P6SMB130AHM3_A/H	P6SMB18CAHM3/H	P6SMB18CAHM3_A/H
SML4760HE3/61	SML4760HE3_A/H	P6SMB130AHM3/I	P6SMB130AHM3_A/I	P6SMB18CAHM3/I	P6SMB18CAHM3_A/I
SML4761AEH3/5A	SML4761AEH3_A/I	P6SMB130CAHE3/52	P6SMB130CAHE3_A/H	P6SMB200AEH3/52	P6SMB200AEH3_A/H
SML4761AEH3/61	SML4761AEH3_A/H	P6SMB130CAHE3/5B	P6SMB130CAHE3_A/I	P6SMB200AEH3/5B	P6SMB200AEH3_A/I
SML4761HE3/5A	SML4761HE3_A/I	P6SMB130CAHM3/H	P6SMB130CAHM3_A/H	P6SMB200AHM3/H	P6SMB200AHM3_A/H
SML4761HE3/61	SML4761HE3_A/H	P6SMB130CAHM3/I	P6SMB130CAHM3_A/I	P6SMB200AHM3/I	P6SMB200AHM3_A/I
SML4762AEH3/5A	SML4762AEH3_A/I	P6SMB131CAHE3/52	P6SMB131CAHE3_A/H	P6SMB200CAHE3/52	P6SMB200CAHE3_A/H
SML4762AEH3/61	SML4762AEH3_A/H	P6SMB131CAHE3/5B	P6SMB131CAHE3_A/I	P6SMB200CAHE3/5B	P6SMB200CAHE3_A/I
SML4762HE3/5A	SML4762HE3_A/I	P6SMB131CAHM3/H	P6SMB131CAHM3_A/H	P6SMB200CAHM3/H	P6SMB200CAHM3_A/H
SML4762HE3/61	SML4762HE3_A/H	P6SMB131CAHM3/I	P6SMB131CAHM3_A/I	P6SMB200CAHM3/I	P6SMB200CAHM3_A/I
SML4763AEH3/5A	SML4763AEH3_A/I	P6SMB131AEH3/52	P6SMB131AEH3_A/H	P6SMB20AEH3/52	P6SMB20AEH3_A/H
SML4763AEH3/61	SML4763AEH3_A/H	P6SMB131AEH3/5B	P6SMB131AEH3_A/I	P6SMB20AEH3/5B	P6SMB20AEH3_A/I
SML4763HE3/5A	SML4763HE3_A/I	P6SMB131AHM3/H	P6SMB131AHM3_A/H	P6SMB20AHM3/H	P6SMB20AHM3_A/H
SML4763HE3/61	SML4763HE3_A/H	P6SMB131AHM3/I	P6SMB131AHM3_A/I	P6SMB20AHM3/I	P6SMB20AHM3_A/I
SML4764AEH3/5A	SML4764AEH3_A/I	P6SMB150AEH3/52	P6SMB150AEH3_A/H	P6SMB20CAHE3/52	P6SMB20CAHE3_A/H
SML4764AEH3/61	SML4764AEH3_A/H	P6SMB150AEH3/5B	P6SMB150AEH3_A/I	P6SMB20CAHE3/5B	P6SMB20CAHE3_A/I
SML4764HE3/5A	SML4764HE3_A/I	P6SMB150AHM3/H	P6SMB150AHM3_A/H	P6SMB20CAHM3/H	P6SMB20CAHM3_A/H
SML4764HE3/61	SML4764HE3_A/H	P6SMB150AHM3/I	P6SMB150AHM3_A/I	P6SMB20CAHM3/I	P6SMB20CAHM3_A/I
P6SMB100AEH3/52	P6SMB100AEH3_A/H	P6SMB150CAHE3/52	P6SMB150CAHE3_A/H	P6SMB220AEH3/52	P6SMB220AEH3_A/H
P6SMB100AEH3/5B	P6SMB100AEH3_A/I	P6SMB150CAHE3/5B	P6SMB150CAHE3_A/I	P6SMB220AEH3/5B	P6SMB220AEH3_A/I
P6SMB100AHM3/H	P6SMB100AHM3_A/H	P6SMB150CAHM3/H	P6SMB150CAHM3_A/H	P6SMB220AHM3/H	P6SMB220AHM3_A/H
P6SMB100AHM3/I	P6SMB100AHM3_A/I	P6SMB150CAHM3/I	P6SMB150CAHM3_A/I	P6SMB220AHM3/I	P6SMB220AHM3_A/I
P6SMB100CAHE3/52	P6SMB100CAHE3_A/H	P6SMB151AEH3/52	P6SMB151AEH3_A/H	P6SMB220CAHE3/52	P6SMB220CAHE3_A/H
P6SMB100CAHE3/5B	P6SMB100CAHE3_A/I	P6SMB151AEH3/5B	P6SMB151AEH3_A/I	P6SMB220CAHE3/5B	P6SMB220CAHE3_A/I
P6SMB100CAHM3/H	P6SMB100CAHM3_A/H	P6SMB151AHM3/H	P6SMB151AHM3_A/H	P6SMB220CAHM3/H	P6SMB220CAHM3_A/H
P6SMB100CAHM3/I	P6SMB100CAHM3_A/I	P6SMB151AHM3/I	P6SMB151AHM3_A/I	P6SMB220CAHM3/I	P6SMB220CAHM3_A/I
P6SMB10AEH3/52	P6SMB10AEH3_A/H	P6SMB151CAHE3/52	P6SMB151CAHE3_A/H	P6SMB222AEH3/52	P6SMB222AEH3_A/H
P6SMB10AEH3/5B	P6SMB10AEH3_A/I	P6SMB151CAHE3/5B	P6SMB151CAHE3_A/I	P6SMB222AEH3/5B	P6SMB222AEH3_A/I
P6SMB10AHM3/H	P6SMB10AHM3_A/H	P6SMB151CAHM3/H	P6SMB151CAHM3_A/H	P6SMB222AHM3/H	P6SMB222AHM3_A/H
P6SMB10AHM3/I	P6SMB10AHM3_A/I	P6SMB151CAHM3/I	P6SMB151CAHM3_A/I	P6SMB222AHM3/I	P6SMB222AHM3_A/I
P6SMB10CAHE3/52	P6SMB10CAHE3_A/H	P6SMB160AEH3/52	P6SMB160AEH3_A/H	P6SMB22CAHE3/52	P6SMB22CAHE3_A/H
P6SMB10CAHE3/5B	P6SMB10CAHE3_A/I	P6SMB160AEH3/5B	P6SMB160AEH3_A/I	P6SMB22CAHE3/5B	P6SMB22CAHE3_A/I
P6SMB10CAHM3/H	P6SMB10CAHM3_A/H	P6SMB160AHM3/H	P6SMB160AHM3_A/H	P6SMB22CAHM3/H	P6SMB22CAHM3_A/H
P6SMB10CAHM3/I	P6SMB10CAHM3_A/I	P6SMB160AHM3/I	P6SMB160AHM3_A/I	P6SMB22CAHM3/I	P6SMB22CAHM3_A/I
P6SMB110AEH3/52	P6SMB110AEH3_A/H	P6SMB160CAHE3/52	P6SMB160CAHE3_A/H	P6SMB24AEH3/52	P6SMB24AEH3_A/H
P6SMB110AEH3/5B	P6SMB110AEH3_A/I	P6SMB160CAHE3/5B	P6SMB160CAHE3_A/I	P6SMB24AEH3/5B	P6SMB24AEH3_A/I
P6SMB110AHM3/H	P6SMB110AHM3_A/H	P6SMB160CAHM3/H	P6SMB160CAHM3_A/H	P6SMB24AHM3/H	P6SMB24AHM3_A/H
P6SMB110AHM3/I	P6SMB110AHM3_A/I	P6SMB160CAHM3/I	P6SMB160CAHM3_A/I	P6SMB24AHM3/I	P6SMB24AHM3_A/I
P6SMB110CAHE3/52	P6SMB110CAHE3_A/H	P6SMB16AEH3/52	P6SMB16AEH3_A/H	P6SMB24CAHE3/52	P6SMB24CAHE3_A/H



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
P6SMB24CAHE3/5B	P6SMB24CAHE3_A/I	P6SMB47CAHE3/52	P6SMB47CAHE3_A/H	P6SMB75CAHM3/I	P6SMB75CAHM3_A/I
P6SMB24CAHM3/H	P6SMB24CAHM3_A/H	P6SMB47CAHE3/5B	P6SMB47CAHE3_A/I	P6SMB8.2AHE3/52	P6SMB8.2AHE3_A/H
P6SMB24CAHM3/I	P6SMB24CAHM3_A/I	P6SMB47CAHM3/H	P6SMB47CAHM3_A/H	P6SMB8.2AHE3/5B	P6SMB8.2AHE3_A/I
P6SMB250A01HM3_A/I	P6SMB250A01HM3_C/I	P6SMB47CAHM3/I	P6SMB47CAHM3_A/I	P6SMB8.2AHM3/H	P6SMB8.2AHM3_A/H
P6SMB250AHM3_A/H	P6SMB250AHM3_C/H	P6SMB480A01HM3_A/I	P6SMB480A01HM3_C/I	P6SMB8.2AHM3/I	P6SMB8.2AHM3_A/I
P6SMB250AHM3_A/I	P6SMB250AHM3_C/I	P6SMB480AHM3_A/H	P6SMB480AHM3_C/H	P6SMB8.2CAHE3/52	P6SMB8.2CAHE3_A/H
P6SMB27AHE3/52	P6SMB27AHE3_A/H	P6SMB480AHM3_A/I	P6SMB480AHM3_C/I	P6SMB8.2CAHE3/5B	P6SMB8.2CAHE3_A/I
P6SMB27AHE3/5B	P6SMB27AHE3_A/I	P6SMB510A01HM3_A/I	P6SMB510A01HM3_C/I	P6SMB8.2CAHM3/H	P6SMB8.2CAHM3_A/H
P6SMB27AHM3/H	P6SMB27AHM3_A/H	P6SMB510AHM3_A/H	P6SMB510AHM3_C/H	P6SMB8.2CAHM3/I	P6SMB8.2CAHM3_A/I
P6SMB27AHM3/I	P6SMB27AHM3_A/I	P6SMB510AHM3_A/I	P6SMB510AHM3_C/I	P6SMB82AHE3/52	P6SMB82AHE3_A/H
P6SMB27CAHE3/52	P6SMB27CAHE3_A/H	P6SMB51AHE3/52	P6SMB51AHE3_A/H	P6SMB82AHE3/5B	P6SMB82AHE3_A/I
P6SMB27CAHE3/5B	P6SMB27CAHE3_A/I	P6SMB51AHE3/5B	P6SMB51AHE3_A/I	P6SMB82AHM3/H	P6SMB82AHM3_A/H
P6SMB27CAHM3/H	P6SMB27CAHM3_A/H	P6SMB51AHM3/H	P6SMB51AHM3_A/H	P6SMB82AHM3/I	P6SMB82AHM3_A/I
P6SMB27CAHM3/I	P6SMB27CAHM3_A/I	P6SMB51AHM3/I	P6SMB51AHM3_A/I	P6SMB82CAHE3/52	P6SMB82CAHE3_A/H
P6SMB300A01HM3_A/I	P6SMB300A01HM3_C/I	P6SMB51CAHE3/52	P6SMB51CAHE3_A/H	P6SMB82CAHE3/5B	P6SMB82CAHE3_A/I
P6SMB300AHM3_A/H	P6SMB300AHM3_C/H	P6SMB51CAHE3/5B	P6SMB51CAHE3_A/I	P6SMB82CAHM3/H	P6SMB82CAHM3_A/H
P6SMB300AHM3_A/I	P6SMB300AHM3_C/I	P6SMB51CAHM3/H	P6SMB51CAHM3_A/H	P6SMB82CAHM3/I	P6SMB82CAHM3_A/I
P6SMB30AHE3/52	P6SMB30AHE3_A/H	P6SMB51CAHM3/I	P6SMB51CAHM3_A/I	P6SMB9.1AHE3/52	P6SMB9.1AHE3_A/H
P6SMB30AHE3/5B	P6SMB30AHE3_A/I	P6SMB540A01HM3_A/I	P6SMB540A01HM3_C/I	P6SMB9.1AHE3/5B	P6SMB9.1AHE3_A/I
P6SMB30AHM3/H	P6SMB30AHM3_A/H	P6SMB540AHM3_A/H	P6SMB540AHM3_C/H	P6SMB9.1AHM3/H	P6SMB9.1AHM3_A/H
P6SMB30AHM3/I	P6SMB30AHM3_A/I	P6SMB540AHM3_A/I	P6SMB540AHM3_C/I	P6SMB9.1AHM3/I	P6SMB9.1AHM3_A/I
P6SMB30CAHE3/52	P6SMB30CAHE3_A/H	P6SMB56AHE3/52	P6SMB56AHE3_A/H	P6SMB9.1CAHE3/52	P6SMB9.1CAHE3_A/H
P6SMB30CAHE3/5B	P6SMB30CAHE3_A/I	P6SMB56AHE3/5B	P6SMB56AHE3_A/I	P6SMB9.1CAHE3/5B	P6SMB9.1CAHE3_A/I
P6SMB30CAHM3/H	P6SMB30CAHM3_A/H	P6SMB56AHM3/H	P6SMB56AHM3_A/H	P6SMB9.1CAHM3/H	P6SMB9.1CAHM3_A/H
P6SMB30CAHM3/I	P6SMB30CAHM3_A/I	P6SMB56AHM3/I	P6SMB56AHM3_A/I	P6SMB9.1CAHM3/I	P6SMB9.1CAHM3_A/I
P6SMB33AHE3/52	P6SMB33AHE3_A/H	P6SMB56CAHE3/52	P6SMB56CAHE3_A/H	P6SMB91AHE3/52	P6SMB91AHE3_A/H
P6SMB33AHE3/5B	P6SMB33AHE3_A/I	P6SMB56CAHE3/5B	P6SMB56CAHE3_A/I	P6SMB91AHE3/5B	P6SMB91AHE3_A/I
P6SMB33AHM3/H	P6SMB33AHM3_A/H	P6SMB56CAHM3/H	P6SMB56CAHM3_A/H	P6SMB91AHM3/H	P6SMB91AHM3_A/H
P6SMB33AHM3/I	P6SMB33AHM3_A/I	P6SMB56CAHM3/I	P6SMB56CAHM3_A/I	P6SMB91AHM3/I	P6SMB91AHM3_A/I
P6SMB33CAHE3/52	P6SMB33CAHE3_A/H	P6SMB6.8AHE3/52	P6SMB6.8AHE3_A/H	P6SMB91CAHE3/52	P6SMB91CAHE3_A/H
P6SMB33CAHE3/5B	P6SMB33CAHE3_A/I	P6SMB6.8AHE3/5B	P6SMB6.8AHE3_A/I	P6SMB91CAHE3/5B	P6SMB91CAHE3_A/I
P6SMB33CAHM3/H	P6SMB33CAHM3_A/H	P6SMB6.8AHM3/H	P6SMB6.8AHM3_A/H	P6SMB91CAHM3/H	P6SMB91CAHM3_A/H
P6SMB33CAHM3/I	P6SMB33CAHM3_A/I	P6SMB6.8AHM3/I	P6SMB6.8AHM3_A/I	P6SMB91CAHM3/I	P6SMB91CAHM3_A/I
P6SMB350AHM3_A/H	P6SMB350AHM3_C/H	P6SMB6.8CAHE3/52	P6SMB6.8CAHE3_A/H	SM6T100AHE3/52	SM6T100AHE3_A/H
P6SMB350AHM3_A/I	P6SMB350AHM3_C/I	P6SMB6.8CAHE3/5B	P6SMB6.8CAHE3_A/I	SM6T100AHE3/5B	SM6T100AHE3_A/I
P6SMB36AHE3/52	P6SMB36AHE3_A/H	P6SMB6.8CAHM3/H	P6SMB6.8CAHM3_A/H	SM6T100AHM3/H	SM6T100AHM3_A/H
P6SMB36AHE3/5B	P6SMB36AHE3_A/I	P6SMB6.8CAHM3/I	P6SMB6.8CAHM3_A/I	SM6T100AHM3/I	SM6T100AHM3_A/I
P6SMB36AHM3/H	P6SMB36AHM3_A/H	P6SMB62AHE3/52	P6SMB62AHE3_A/H	SM6T100CAHE3/52	SM6T100CAHE3_A/H
P6SMB36AHM3/I	P6SMB36AHM3_A/I	P6SMB62AHE3/5B	P6SMB62AHE3_A/I	SM6T100CAHE3/5B	SM6T100CAHE3_A/I
P6SMB36CAHE3/52	P6SMB36CAHE3_A/H	P6SMB62AHM3/H	P6SMB62AHM3_A/H	SM6T100CAHM3/H	SM6T100CAHM3_A/H
P6SMB36CAHE3/5B	P6SMB36CAHE3_A/I	P6SMB62AHM3/I	P6SMB62AHM3_A/I	SM6T100CAHM3/I	SM6T100CAHM3_A/I
P6SMB36CAHM3/H	P6SMB36CAHM3_A/H	P6SMB62CAHE3/52	P6SMB62CAHE3_A/H	SM6T10AHE3/52	SM6T10AHE3_A/H
P6SMB36CAHM3/I	P6SMB36CAHM3_A/I	P6SMB62CAHE3/5B	P6SMB62CAHE3_A/I	SM6T10AHE3/5B	SM6T10AHE3_A/I
P6SMB39AHE3/52	P6SMB39AHE3_A/H	P6SMB62CAHM3/H	P6SMB62CAHM3_A/H	SM6T10AHM3/H	SM6T10AHM3_A/H
P6SMB39AHE3/5B	P6SMB39AHE3_A/I	P6SMB62CAHM3/I	P6SMB62CAHM3_A/I	SM6T10AHM3/I	SM6T10AHM3_A/I
P6SMB39AHM3/H	P6SMB39AHM3_A/H	P6SMB68AHE3/52	P6SMB68AHE3_A/H	SM6T10CAHE3/52	SM6T10CAHE3_A/H
P6SMB39AHM3/I	P6SMB39AHM3_A/I	P6SMB68AHE3/5B	P6SMB68AHE3_A/I	SM6T10CAHE3/5B	SM6T10CAHE3_A/I
P6SMB39CAHE3/52	P6SMB39CAHE3_A/H	P6SMB68AHM3/H	P6SMB68AHM3_A/H	SM6T10CAHM3/H	SM6T10CAHM3_A/H
P6SMB39CAHE3/5B	P6SMB39CAHE3_A/I	P6SMB68AHM3/I	P6SMB68AHM3_A/I	SM6T10CAHM3/I	SM6T10CAHM3_A/I
P6SMB39CAHM3/H	P6SMB39CAHM3_A/H	P6SMB68CAHE3/52	P6SMB68CAHE3_A/H	SM6T12AHE3/52	SM6T12AHE3_A/H
P6SMB39CAHM3/I	P6SMB39CAHM3_A/I	P6SMB68CAHE3/5B	P6SMB68CAHE3_A/I	SM6T12AHE3/5B	SM6T12AHE3_A/I
P6SMB400AHM3_A/H	P6SMB400AHM3_C/H	P6SMB68CAHM3/H	P6SMB68CAHM3_A/H	SM6T12AHM3/H	SM6T12AHM3_A/H
P6SMB400AHM3_A/I	P6SMB400AHM3_C/I	P6SMB68CAHM3/I	P6SMB68CAHM3_A/I	SM6T12AHM3/I	SM6T12AHM3_A/I
P6SMB43AHE3/52	P6SMB43AHE3_A/H	P6SMB7.5AHE3/52	P6SMB7.5AHE3_A/H	SM6T12CAHE3/52	SM6T12CAHE3_A/H
P6SMB43AHE3/5B	P6SMB43AHE3_A/I	P6SMB7.5AHE3/5B	P6SMB7.5AHE3_A/I	SM6T12CAHE3/5B	SM6T12CAHE3_A/I
P6SMB43AHM3/H	P6SMB43AHM3_A/H	P6SMB7.5AHM3/H	P6SMB7.5AHM3_A/H	SM6T12CAHM3/H	SM6T12CAHM3_A/H
P6SMB43AHM3/I	P6SMB43AHM3_A/I	P6SMB7.5AHM3/I	P6SMB7.5AHM3_A/I	SM6T12CAHM3/I	SM6T12CAHM3_A/I
P6SMB43CAHE3/52	P6SMB43CAHE3_A/H	P6SMB7.5CAHE3/52	P6SMB7.5CAHE3_A/H	SM6T150AHE3/52	SM6T150AHE3_A/H
P6SMB43CAHE3/5B	P6SMB43CAHE3_A/I	P6SMB7.5CAHE3/5B	P6SMB7.5CAHE3_A/I	SM6T150AHE3/5B	SM6T150AHE3_A/I
P6SMB43CAHM3/H	P6SMB43CAHM3_A/H	P6SMB7.5CAHM3/H	P6SMB7.5CAHM3_A/H	SM6T150AHM3/H	SM6T150AHM3_A/H
P6SMB43CAHM3/I	P6SMB43CAHM3_A/I	P6SMB7.5CAHM3/I	P6SMB7.5CAHM3_A/I	SM6T150AHM3/I	SM6T150AHM3_A/I
P6SMB440A01HM3_A/I	P6SMB440A01HM3_C/I	P6SMB75AHE3/52	P6SMB75AHE3_A/H	SM6T150CAHE3/52	SM6T150CAHE3_A/H
P6SMB440AHM3_A/H	P6SMB440AHM3_C/H	P6SMB75AHE3/5B	P6SMB75AHE3_A/I	SM6T150CAHE3/5B	SM6T150CAHE3_A/I
P6SMB440AHM3_A/I	P6SMB440AHM3_C/I	P6SMB75AHM3/H	P6SMB75AHM3_A/H	SM6T150CAHM3/H	SM6T150CAHM3_A/H
P6SMB47AHE3/52	P6SMB47AHE3_A/H	P6SMB75AHM3/I	P6SMB75AHM3_A/I	SM6T150CAHM3/I	SM6T150CAHM3_A/I
P6SMB47AHE3/5B	P6SMB47AHE3_A/I	P6SMB75CAHE3/52	P6SMB75CAHE3_A/H	SM6T15AHE3/52	SM6T15AHE3_A/H
P6SMB47AHM3/H	P6SMB47AHM3_A/H	P6SMB75CAHE3/5B	P6SMB75CAHE3_A/I	SM6T15AHE3/5B	SM6T15AHE3_A/I
P6SMB47AHM3/I	P6SMB47AHM3_A/I	P6SMB75CAHM3/H	P6SMB75CAHM3_A/H	SM6T15AHM3/H	SM6T15AHM3_A/H



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SM6T15AHM3/I	SM6T15AHM3 A/I	SM6T33CAHM3/I	SM6T33CAHM3 A/I	SMB10J16AHM3/I	SMB10J16AHM3 A/I
SM6T15CAHE3/52	SM6T15CAHE3 A/H	SM6T36AHE3/52	SM6T36AHE3 A/H	SMB10J17AHE3/52	SMB10J17AHE3 A/H
SM6T15CAHE3/5B	SM6T15CAHE3 A/I	SM6T36AHE3/5B	SM6T36AHE3 A/I	SMB10J17AHE3/5B	SMB10J17AHE3 A/I
SM6T15CAHM3/H	SM6T15CAHM3 A/H	SM6T36AHM3/H	SM6T36AHM3 A/H	SMB10J17AHM3/H	SMB10J17AHM3 A/H
SM6T15CAHM3/I	SM6T15CAHM3 A/I	SM6T36AHM3/I	SM6T36AHM3 A/I	SMB10J17AHM3/I	SMB10J17AHM3 A/I
SM6T18AHE3/52	SM6T18AHE3 A/H	SM6T36CAHE3/52	SM6T36CAHE3 A/H	SMB10J18AHE3/52	SMB10J18AHE3 A/H
SM6T18AHE3/5B	SM6T18AHE3 A/I	SM6T36CAHE3/5B	SM6T36CAHE3 A/I	SMB10J18AHE3/5B	SMB10J18AHE3 A/I
SM6T18AHM3/H	SM6T18AHM3 A/H	SM6T36CAHM3/H	SM6T36CAHM3 A/H	SMB10J18AHM3/H	SMB10J18AHM3 A/H
SM6T18AHM3/I	SM6T18AHM3 A/I	SM6T36CAHM3/I	SM6T36CAHM3 A/I	SMB10J18AHM3/I	SMB10J18AHM3 A/I
SM6T18CAHE3/52	SM6T18CAHE3 A/H	SM6T39AHE3/52	SM6T39AHE3 A/H	SMB10J20AHE3/52	SMB10J20AHE3 A/H
SM6T18CAHE3/5B	SM6T18CAHE3 A/I	SM6T39AHE3/5B	SM6T39AHE3 A/I	SMB10J20AHE3/5B	SMB10J20AHE3 A/I
SM6T18CAHM3/H	SM6T18CAHM3 A/H	SM6T39AHM3/H	SM6T39AHM3 A/H	SMB10J20AHM3/H	SMB10J20AHM3 A/H
SM6T18CAHM3/I	SM6T18CAHM3 A/I	SM6T39AHM3/I	SM6T39AHM3 A/I	SMB10J20AHM3/I	SMB10J20AHM3 A/I
SM6T200AHE3/52	SM6T200AHE3 A/H	SM6T39CAHE3/52	SM6T39CAHE3 A/H	SMB10J22AHE3/52	SMB10J22AHE3 A/H
SM6T200AHE3/5B	SM6T200AHE3 A/I	SM6T39CAHE3/5B	SM6T39CAHE3 A/I	SMB10J22AHE3/5B	SMB10J22AHE3 A/I
SM6T200AHM3/H	SM6T200AHM3 A/H	SM6T39CAHM3/H	SM6T39CAHM3 A/H	SMB10J22AHM3/H	SMB10J22AHM3 A/H
SM6T200AHM3/I	SM6T200AHM3 A/I	SM6T39CAHM3/I	SM6T39CAHM3 A/I	SMB10J22AHM3/I	SMB10J22AHM3 A/I
SM6T200CAHE3/52	SM6T200CAHE3 A/H	SM6T68AHE3/52	SM6T68AHE3 A/H	SMB10J24AHE3/52	SMB10J24AHE3 A/H
SM6T200CAHE3/5B	SM6T200CAHE3 A/I	SM6T68AHE3/5B	SM6T68AHE3 A/I	SMB10J24AHE3/5B	SMB10J24AHE3 A/I
SM6T200CAHM3/H	SM6T200CAHM3 A/H	SM6T68AHM3/H	SM6T68AHM3 A/H	SMB10J24AHM3/H	SMB10J24AHM3 A/H
SM6T200CAHM3/I	SM6T200CAHM3 A/I	SM6T68AHM3/I	SM6T68AHM3 A/I	SMB10J24AHM3/I	SMB10J24AHM3 A/I
SM6T220AHE3/52	SM6T220AHE3 A/H	SM6T68CAHE3/52	SM6T68CAHE3 A/H	SMB10J26AHE3/52	SMB10J26AHE3 A/H
SM6T220AHE3/5B	SM6T220AHE3 A/I	SM6T68CAHE3/5B	SM6T68CAHE3 A/I	SMB10J26AHE3/5B	SMB10J26AHE3 A/I
SM6T220AHM3/H	SM6T220AHM3 A/H	SM6T68CAHM3/H	SM6T68CAHM3 A/H	SMB10J26AHM3/H	SMB10J26AHM3 A/H
SM6T220AHM3/I	SM6T220AHM3 A/I	SM6T68CAHM3/I	SM6T68CAHM3 A/I	SMB10J26AHM3/I	SMB10J26AHM3 A/I
SM6T220CAHE3/52	SM6T220CAHE3 A/H	SM6T6V8AHE3/52	SM6T6V8AHE3 A/H	SMB10J28AHE3/52	SMB10J28AHE3 A/H
SM6T220CAHE3/5B	SM6T220CAHE3 A/I	SM6T6V8AHE3/5B	SM6T6V8AHE3 A/I	SMB10J28AHE3/5B	SMB10J28AHE3 A/I
SM6T220CAHM3/H	SM6T220CAHM3 A/H	SM6T6V8AHM3/H	SM6T6V8AHM3 A/H	SMB10J28AHM3/H	SMB10J28AHM3 A/H
SM6T220CAHM3/I	SM6T220CAHM3 A/I	SM6T6V8AHM3/I	SM6T6V8AHM3 A/I	SMB10J28AHM3/I	SMB10J28AHM3 A/I
SM6T22AHE3/52	SM6T22AHE3 A/H	SM6T6V8CAHE3/52	SM6T6V8CAHE3 A/H	SMB10J30AHE3/52	SMB10J30AHE3 A/H
SM6T22AHE3/5B	SM6T22AHE3 A/I	SM6T6V8CAHE3/5B	SM6T6V8CAHE3 A/I	SMB10J30AHE3/5B	SMB10J30AHE3 A/I
SM6T22AHM3/H	SM6T22AHM3 A/H	SM6T6V8CAHM3/H	SM6T6V8CAHM3 A/H	SMB10J30AHM3/H	SMB10J30AHM3 A/H
SM6T22AHM3/I	SM6T22AHM3 A/I	SM6T6V8CAHM3/I	SM6T6V8CAHM3 A/I	SMB10J30AHM3/I	SMB10J30AHM3 A/I
SM6T22CAHE3/52	SM6T22CAHE3 A/H	SM6T7V5AHE3/52	SM6T7V5AHE3 A/H	SMB10J33AHE3/52	SMB10J33AHE3 A/H
SM6T22CAHE3/5B	SM6T22CAHE3 A/I	SM6T7V5AHE3/5B	SM6T7V5AHE3 A/I	SMB10J33AHE3/5B	SMB10J33AHE3 A/I
SM6T22CAHM3/H	SM6T22CAHM3 A/H	SM6T7V5AHM3/H	SM6T7V5AHM3 A/H	SMB10J33AHM3/H	SMB10J33AHM3 A/H
SM6T22CAHM3/I	SM6T22CAHM3 A/I	SM6T7V5AHM3/I	SM6T7V5AHM3 A/I	SMB10J33AHM3/I	SMB10J33AHM3 A/I
SM6T24AHE3/52	SM6T24AHE3 A/H	SM6T7V5CAHE3/52	SM6T7V5CAHE3 A/H	SMB10J36AHE3/52	SMB10J36AHE3 A/H
SM6T24AHE3/5B	SM6T24AHE3 A/I	SM6T7V5CAHE3/5B	SM6T7V5CAHE3 A/I	SMB10J36AHE3/5B	SMB10J36AHE3 A/I
SM6T24AHM3/H	SM6T24AHM3 A/H	SM6T7V5CAHM3/H	SM6T7V5CAHM3 A/H	SMB10J36AHM3/H	SMB10J36AHM3 A/H
SM6T24AHM3/I	SM6T24AHM3 A/I	SM6T7V5CAHM3/I	SM6T7V5CAHM3 A/I	SMB10J36AHM3/I	SMB10J36AHM3 A/I
SM6T24CAHE3/52	SM6T24CAHE3 A/H	SM6T7V5CAHE3/52	SM6T7V5CAHE3 A/H	SMB10J40AHE3/52	SMB10J40AHE3 A/H
SM6T24CAHE3/5B	SM6T24CAHE3 A/I	SM6T7V5CAHE3/5B	SM6T7V5CAHE3 A/I	SMB10J40AHE3/5B	SMB10J40AHE3 A/I
SM6T24CAHM3/H	SM6T24CAHM3 A/H	SMB10J10AHE3/5B	SMB10J10AHE3 A/I	SMB10J40AHM3/H	SMB10J40AHM3 A/H
SM6T24CAHM3/I	SM6T24CAHM3 A/I	SMB10J10AHM3/H	SMB10J10AHM3 A/H	SMB10J40AHM3/I	SMB10J40AHM3 A/I
SM6T27AHE3/52	SM6T27AHE3 A/H	SMB10J10AHM3/I	SMB10J10AHM3 A/I	SMB10J5.0AHE3/52	SMB10J5.0AHE3 A/H
SM6T27AHE3/5B	SM6T27AHE3 A/I	SMB10J11AHE3/52	SMB10J11AHE3 A/H	SMB10J5.0AHE3/5B	SMB10J5.0AHE3 A/I
SM6T27AHM3/H	SM6T27AHM3 A/H	SMB10J11AHE3/5B	SMB10J11AHE3 A/I	SMB10J5.0AHM3/H	SMB10J5.0AHM3 A/H
SM6T27AHM3/I	SM6T27AHM3 A/I	SMB10J11AHM3/H	SMB10J11AHM3 A/H	SMB10J5.0AHM3/I	SMB10J5.0AHM3 A/I
SM6T27CAHE3/52	SM6T27CAHE3 A/H	SMB10J11AHM3/I	SMB10J11AHM3 A/I	SMB10J6.0AHE3/52	SMB10J6.0AHE3 A/H
SM6T27CAHE3/5B	SM6T27CAHE3 A/I	SMB10J12AHE3/52	SMB10J12AHE3 A/H	SMB10J6.0AHE3/5B	SMB10J6.0AHE3 A/I
SM6T27CAHM3/H	SM6T27CAHM3 A/H	SMB10J12AHE3/5B	SMB10J12AHE3 A/I	SMB10J6.0AHM3/H	SMB10J6.0AHM3 A/H
SM6T27CAHM3/I	SM6T27CAHM3 A/I	SMB10J12AHM3/H	SMB10J12AHM3 A/H	SMB10J6.0AHM3/I	SMB10J6.0AHM3 A/I
SM6T30AHE3/52	SM6T30AHE3 A/H	SMB10J12AHM3/I	SMB10J12AHM3 A/I	SMB10J6.5AHE3/52	SMB10J6.5AHE3 A/H
SM6T30AHE3/5B	SM6T30AHE3 A/I	SMB10J13AHE3/52	SMB10J13AHE3 A/H	SMB10J6.5AHE3/5B	SMB10J6.5AHE3 A/I
SM6T30AHM3/H	SM6T30AHM3 A/H	SMB10J13AHE3/5B	SMB10J13AHE3 A/I	SMB10J6.5AHM3/H	SMB10J6.5AHM3 A/H
SM6T30AHM3/I	SM6T30AHM3 A/I	SMB10J13AHM3/H	SMB10J13AHM3 A/H	SMB10J6.5AHM3/I	SMB10J6.5AHM3 A/I
SM6T30CAHE3/52	SM6T30CAHE3 A/H	SMB10J13AHM3/I	SMB10J13AHM3 A/I	SMB10J7.0AHE3/52	SMB10J7.0AHE3 A/H
SM6T30CAHE3/5B	SM6T30CAHE3 A/I	SMB10J14AHE3/52	SMB10J14AHE3 A/H	SMB10J7.0AHE3/5B	SMB10J7.0AHE3 A/I
SM6T30CAHM3/H	SM6T30CAHM3 A/H	SMB10J14AHE3/5B	SMB10J14AHE3 A/I	SMB10J7.0AHM3/H	SMB10J7.0AHM3 A/H
SM6T30CAHM3/I	SM6T30CAHM3 A/I	SMB10J14AHM3/H	SMB10J14AHM3 A/H	SMB10J7.0AHM3/I	SMB10J7.0AHM3 A/I
SM6T33AHE3/52	SM6T33AHE3 A/H	SMB10J14AHM3/I	SMB10J14AHM3 A/I	SMB10J7.5AHE3/52	SMB10J7.5AHE3 A/H
SM6T33AHE3/5B	SM6T33AHE3 A/I	SMB10J15AHE3/52	SMB10J15AHE3 A/H	SMB10J7.5AHE3/5B	SMB10J7.5AHE3 A/I
SM6T33AHM3/H	SM6T33AHM3 A/H	SMB10J15AHE3/5B	SMB10J15AHE3 A/I	SMB10J7.5AHM3/H	SMB10J7.5AHM3 A/H
SM6T33AHM3/I	SM6T33AHM3 A/I	SMB10J15AHM3/H	SMB10J15AHM3 A/H	SMB10J7.5AHM3/I	SMB10J7.5AHM3 A/I
SM6T33CAHE3/52	SM6T33CAHE3 A/H	SMB10J15AHM3/I	SMB10J15AHM3 A/I	SMB10J8.0AHE3/52	SMB10J8.0AHE3 A/H
SM6T33CAHE3/5B	SM6T33CAHE3 A/I	SMB10J16AHE3/52	SMB10J16AHE3 A/H	SMB10J8.0AHE3/5B	SMB10J8.0AHE3 A/I
SM6T33CAHM3/H	SM6T33CAHM3 A/H	SMB10J16AHE3/5B	SMB10J16AHE3 A/I	SMB10J8.0AHM3/H	SMB10J8.0AHM3 A/H
SM6T33CAHM3/I	SM6T33CAHM3 A/I	SMB10J16AHM3/H	SMB10J16AHM3 A/H		



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMB10J8.0AHM3/I	SMB10J8.0AHM3_A/I	SMB8J30CAHM3/I	SMB8J30CAHM3_A/I	SMBJ110CAHM3/I	SMBJ110CAHM3_A/I
SMB10J8.5AHE3/52	SMB10J8.5AHE3_A/H	SMB8J33CAHE3/52	SMB8J33CAHE3_A/H	SMBJ11AHE3/52	SMBJ11AHE3_A/H
SMB10J8.5AHE3/5B	SMB10J8.5AHE3_A/I	SMB8J33CAHE3/5B	SMB8J33CAHE3_A/I	SMBJ11AHE3/5B	SMBJ11AHE3_A/I
SMB10J8.5AHM3/H	SMB10J8.5AHM3_A/H	SMB8J33CAHM3/H	SMB8J33CAHM3_A/H	SMBJ11AHM3/H	SMBJ11AHM3_A/H
SMB10J8.5AHM3/I	SMB10J8.5AHM3_A/I	SMB8J33CAHM3/I	SMB8J33CAHM3_A/I	SMBJ11AHM3/I	SMBJ11AHM3_A/I
SMB10J9.0AHE3/52	SMB10J9.0AHE3_A/H	SMB8J36CAHE3/52	SMB8J36CAHE3_A/H	SMBJ11CAHE3/52	SMBJ11CAHE3_A/H
SMB10J9.0AHE3/5B	SMB10J9.0AHE3_A/I	SMB8J36CAHE3/5B	SMB8J36CAHE3_A/I	SMBJ11CAHE3/5B	SMBJ11CAHE3_A/I
SMB10J9.0AHM3/H	SMB10J9.0AHM3_A/H	SMB8J36CAHM3/H	SMB8J36CAHM3_A/H	SMBJ11CAHM3/H	SMBJ11CAHM3_A/H
SMB10J9.0AHM3/I	SMB10J9.0AHM3_A/I	SMB8J36CAHM3/I	SMB8J36CAHM3_A/I	SMBJ11CAHM3/I	SMBJ11CAHM3_A/I
SMB8J10CAHE3/52	SMB8J10CAHE3_A/H	SMB8J40CAHE3/52	SMB8J40CAHE3_A/H	SMBJ120AHE3/52	SMBJ120AHE3_A/H
SMB8J10CAHE3/5B	SMB8J10CAHE3_A/I	SMB8J40CAHE3/5B	SMB8J40CAHE3_A/I	SMBJ120AHE3/5B	SMBJ120AHE3_A/I
SMB8J10CAHM3/H	SMB8J10CAHM3_A/H	SMB8J40CAHM3/H	SMB8J40CAHM3_A/H	SMBJ120AHM3/H	SMBJ120AHM3_A/H
SMB8J10CAHM3/I	SMB8J10CAHM3_A/I	SMB8J40CAHM3/I	SMB8J40CAHM3_A/I	SMBJ120AHM3/I	SMBJ120AHM3_A/I
SMB8J11CAHE3/52	SMB8J11CAHE3_A/H	SMB8J5.0CAHE3/52	SMB8J5.0CAHE3_A/H	SMBJ120CAHE3/52	SMBJ120CAHE3_A/H
SMB8J11CAHE3/5B	SMB8J11CAHE3_A/I	SMB8J5.0CAHE3/5B	SMB8J5.0CAHE3_A/I	SMBJ120CAHE3/5B	SMBJ120CAHE3_A/I
SMB8J11CAHM3/H	SMB8J11CAHM3_A/H	SMB8J5.0CAHM3/H	SMB8J5.0CAHM3_A/H	SMBJ120CAHM3/H	SMBJ120CAHM3_A/H
SMB8J11CAHM3/I	SMB8J11CAHM3_A/I	SMB8J5.0CAHM3/I	SMB8J5.0CAHM3_A/I	SMBJ120CAHM3/I	SMBJ120CAHM3_A/I
SMB8J12CAHE3/52	SMB8J12CAHE3_A/H	SMB8J6.0CAHE3/52	SMB8J6.0CAHE3_A/H	SMBJ12AHE3/52	SMBJ12AHE3_A/H
SMB8J12CAHE3/5B	SMB8J12CAHE3_A/I	SMB8J6.0CAHE3/5B	SMB8J6.0CAHE3_A/I	SMBJ12AHE3/5B	SMBJ12AHE3_A/I
SMB8J12CAHM3/H	SMB8J12CAHM3_A/H	SMB8J6.0CAHM3/H	SMB8J6.0CAHM3_A/H	SMBJ12AHM3/H	SMBJ12AHM3_A/H
SMB8J12CAHM3/I	SMB8J12CAHM3_A/I	SMB8J6.0CAHM3/I	SMB8J6.0CAHM3_A/I	SMBJ12AHM3/I	SMBJ12AHM3_A/I
SMB8J13CAHE3/52	SMB8J13CAHE3_A/H	SMB8J6.5CAHE3/52	SMB8J6.5CAHE3_A/H	SMBJ12CAHE3/52	SMBJ12CAHE3_A/H
SMB8J13CAHE3/5B	SMB8J13CAHE3_A/I	SMB8J6.5CAHE3/5B	SMB8J6.5CAHE3_A/I	SMBJ12CAHE3/5B	SMBJ12CAHE3_A/I
SMB8J13CAHM3/H	SMB8J13CAHM3_A/H	SMB8J6.5CAHM3/H	SMB8J6.5CAHM3_A/H	SMBJ12CAHM3/H	SMBJ12CAHM3_A/H
SMB8J13CAHM3/I	SMB8J13CAHM3_A/I	SMB8J6.5CAHM3/I	SMB8J6.5CAHM3_A/I	SMBJ12CAHM3/I	SMBJ12CAHM3_A/I
SMB8J14CAHE3/52	SMB8J14CAHE3_A/H	SMB8J7.0CAHE3/52	SMB8J7.0CAHE3_A/H	SMBJ130AHE3/52	SMBJ130AHE3_A/H
SMB8J14CAHE3/5B	SMB8J14CAHE3_A/I	SMB8J7.0CAHE3/5B	SMB8J7.0CAHE3_A/I	SMBJ130AHE3/5B	SMBJ130AHE3_A/I
SMB8J14CAHM3/H	SMB8J14CAHM3_A/H	SMB8J7.0CAHM3/H	SMB8J7.0CAHM3_A/H	SMBJ130AHM3/H	SMBJ130AHM3_A/H
SMB8J14CAHM3/I	SMB8J14CAHM3_A/I	SMB8J7.0CAHM3/I	SMB8J7.0CAHM3_A/I	SMBJ130AHM3/I	SMBJ130AHM3_A/I
SMB8J15CAHE3/52	SMB8J15CAHE3_A/H	SMB8J7.5CAHE3/52	SMB8J7.5CAHE3_A/H	SMBJ130CAHE3/52	SMBJ130CAHE3_A/H
SMB8J15CAHE3/5B	SMB8J15CAHE3_A/I	SMB8J7.5CAHE3/5B	SMB8J7.5CAHE3_A/I	SMBJ130CAHE3/5B	SMBJ130CAHE3_A/I
SMB8J15CAHM3/H	SMB8J15CAHM3_A/H	SMB8J7.5CAHM3/H	SMB8J7.5CAHM3_A/H	SMBJ130CAHM3/H	SMBJ130CAHM3_A/H
SMB8J15CAHM3/I	SMB8J15CAHM3_A/I	SMB8J7.5CAHM3/I	SMB8J7.5CAHM3_A/I	SMBJ130CAHM3/I	SMBJ130CAHM3_A/I
SMB8J16CAHE3/52	SMB8J16CAHE3_A/H	SMB8J8.0CAHE3/52	SMB8J8.0CAHE3_A/H	SMBJ13AHE3/52	SMBJ13AHE3_A/H
SMB8J16CAHE3/5B	SMB8J16CAHE3_A/I	SMB8J8.0CAHE3/5B	SMB8J8.0CAHE3_A/I	SMBJ13AHE3/5B	SMBJ13AHE3_A/I
SMB8J16CAHM3/H	SMB8J16CAHM3_A/H	SMB8J8.0CAHM3/H	SMB8J8.0CAHM3_A/H	SMBJ13AHM3/H	SMBJ13AHM3_A/H
SMB8J16CAHM3/I	SMB8J16CAHM3_A/I	SMB8J8.0CAHM3/I	SMB8J8.0CAHM3_A/I	SMBJ13AHM3/I	SMBJ13AHM3_A/I
SMB8J17CAHE3/52	SMB8J17CAHE3_A/H	SMB8J8.5CAHE3/52	SMB8J8.5CAHE3_A/H	SMBJ13CAHE3/52	SMBJ13CAHE3_A/H
SMB8J17CAHE3/5B	SMB8J17CAHE3_A/I	SMB8J8.5CAHE3/5B	SMB8J8.5CAHE3_A/I	SMBJ13CAHE3/5B	SMBJ13CAHE3_A/I
SMB8J17CAHM3/H	SMB8J17CAHM3_A/H	SMB8J8.5CAHM3/H	SMB8J8.5CAHM3_A/H	SMBJ13CAHM3/H	SMBJ13CAHM3_A/H
SMB8J17CAHM3/I	SMB8J17CAHM3_A/I	SMB8J8.5CAHM3/I	SMB8J8.5CAHM3_A/I	SMBJ13CAHM3/I	SMBJ13CAHM3_A/I
SMB8J18CAHE3/52	SMB8J18CAHE3_A/H	SMB8J9.0CAHE3/52	SMB8J9.0CAHE3_A/H	SMBJ14AHE3/52	SMBJ14AHE3_A/H
SMB8J18CAHE3/5B	SMB8J18CAHE3_A/I	SMB8J9.0CAHE3/5B	SMB8J9.0CAHE3_A/I	SMBJ14AHE3/5B	SMBJ14AHE3_A/I
SMB8J18CAHM3/H	SMB8J18CAHM3_A/H	SMB8J9.0CAHM3/H	SMB8J9.0CAHM3_A/H	SMBJ14AHM3/H	SMBJ14AHM3_A/H
SMB8J18CAHM3/I	SMB8J18CAHM3_A/I	SMB8J9.0CAHM3/I	SMB8J9.0CAHM3_A/I	SMBJ14AHM3/I	SMBJ14AHM3_A/I
SMB8J20CAHE3/52	SMB8J20CAHE3_A/H	SMBJ100AHE3/52	SMBJ100AHE3_A/H	SMBJ14CAHE3/52	SMBJ14CAHE3_A/H
SMB8J20CAHE3/5B	SMB8J20CAHE3_A/I	SMBJ100AHE3/5B	SMBJ100AHE3_A/I	SMBJ14CAHE3/5B	SMBJ14CAHE3_A/I
SMB8J20CAHM3/H	SMB8J20CAHM3_A/H	SMBJ100AHM3/H	SMBJ100AHM3_A/H	SMBJ14CAHM3/H	SMBJ14CAHM3_A/H
SMB8J20CAHM3/I	SMB8J20CAHM3_A/I	SMBJ100AHM3/I	SMBJ100AHM3_A/I	SMBJ14CAHM3/I	SMBJ14CAHM3_A/I
SMB8J22CAHE3/52	SMB8J22CAHE3_A/H	SMBJ100CAHE3/52	SMBJ100CAHE3_A/H	SMBJ150AHE3/52	SMBJ150AHE3_A/H
SMB8J22CAHE3/5B	SMB8J22CAHE3_A/I	SMBJ100CAHE3/5B	SMBJ100CAHE3_A/I	SMBJ150AHE3/5B	SMBJ150AHE3_A/I
SMB8J22CAHM3/H	SMB8J22CAHM3_A/H	SMBJ100CAHM3/H	SMBJ100CAHM3_A/H	SMBJ150AHM3/H	SMBJ150AHM3_A/H
SMB8J22CAHM3/I	SMB8J22CAHM3_A/I	SMBJ100CAHM3/I	SMBJ100CAHM3_A/I	SMBJ150AHM3/I	SMBJ150AHM3_A/I
SMB8J24CAHE3/52	SMB8J24CAHE3_A/H	SMBJ10AHE3/52	SMBJ10AHE3_A/H	SMBJ150CAHE3/52	SMBJ150CAHE3_A/H
SMB8J24CAHE3/5B	SMB8J24CAHE3_A/I	SMBJ10AHE3/5B	SMBJ10AHE3_A/I	SMBJ150CAHE3/5B	SMBJ150CAHE3_A/I
SMB8J24CAHM3/H	SMB8J24CAHM3_A/H	SMBJ10AHM3/H	SMBJ10AHM3_A/H	SMBJ150CAHM3/H	SMBJ150CAHM3_A/H
SMB8J24CAHM3/I	SMB8J24CAHM3_A/I	SMBJ10AHM3/I	SMBJ10AHM3_A/I	SMBJ150CAHM3/I	SMBJ150CAHM3_A/I
SMB8J26CAHE3/52	SMB8J26CAHE3_A/H	SMBJ10CAHE3/52	SMBJ10CAHE3_A/H	SMBJ15AHE3/52	SMBJ15AHE3_A/H
SMB8J26CAHE3/5B	SMB8J26CAHE3_A/I	SMBJ10CAHE3/5B	SMBJ10CAHE3_A/I	SMBJ15AHE3/5B	SMBJ15AHE3_A/I
SMB8J26CAHM3/H	SMB8J26CAHM3_A/H	SMBJ10CAHM3/H	SMBJ10CAHM3_A/H	SMBJ15AHM3/H	SMBJ15AHM3_A/H
SMB8J26CAHM3/I	SMB8J26CAHM3_A/I	SMBJ10CAHM3/I	SMBJ10CAHM3_A/I	SMBJ15AHM3/I	SMBJ15AHM3_A/I
SMB8J28CAHE3/52	SMB8J28CAHE3_A/H	SMBJ110AHE3/52	SMBJ110AHE3_A/H	SMBJ15CAHE3/52	SMBJ15CAHE3_A/H
SMB8J28CAHE3/5B	SMB8J28CAHE3_A/I	SMBJ110AHE3/5B	SMBJ110AHE3_A/I	SMBJ15CAHE3/5B	SMBJ15CAHE3_A/I
SMB8J28CAHM3/H	SMB8J28CAHM3_A/H	SMBJ110AHM3/H	SMBJ110AHM3_A/H	SMBJ15CAHM3/H	SMBJ15CAHM3_A/H
SMB8J28CAHM3/I	SMB8J28CAHM3_A/I	SMBJ110AHM3/I	SMBJ110AHM3_A/I	SMBJ15CAHM3/I	SMBJ15CAHM3_A/I
SMB8J30CAHE3/52	SMB8J30CAHE3_A/H	SMBJ110CAHE3/52	SMBJ110CAHE3_A/H	SMBJ160AHE3/52	SMBJ160AHE3_A/H
SMB8J30CAHE3/5B	SMB8J30CAHE3_A/I	SMBJ110CAHE3/5B	SMBJ110CAHE3_A/I	SMBJ160AHE3/5B	SMBJ160AHE3_A/I
SMB8J30CAHM3/H	SMB8J30CAHM3_A/H	SMBJ110CAHM3/H	SMBJ110CAHM3_A/H	SMBJ160AHM3/H	SMBJ160AHM3_A/H



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMBJ160AHM3/I	SMBJ160AHM3_A/I	SMBJ24CAHM3/H	SMBJ24CAHM3_A/H	SMBJ45CAHE3/5B	SMBJ45CAHE3_A/I
SMBJ160CA58HE3/5B	SMBJ160CA58HE3_A/I	SMBJ24CAHM3/I	SMBJ24CAHM3_A/I	SMBJ45CAHM3/H	SMBJ45CAHM3_A/H
SMBJ160CAHE3/52	SMBJ160CAHE3_A/H	SMBJ26AHE3/52	SMBJ26AHE3_A/H	SMBJ45CAHM3/I	SMBJ45CAHM3_A/I
SMBJ160CAHE3/5B	SMBJ160CAHE3_A/I	SMBJ26AHE3/5B	SMBJ26AHE3_A/I	SMBJ48A7000HE3/5B	SMBJ48A7000HE3_A/I
SMBJ160CAHM3/H	SMBJ160CAHM3_A/H	SMBJ26AHM3/H	SMBJ26AHM3_A/H	SMBJ48AHE3/52	SMBJ48AHE3_A/H
SMBJ160CAHM3/I	SMBJ160CAHM3_A/I	SMBJ26AHM3/I	SMBJ26AHM3_A/I	SMBJ48AHE3/5B	SMBJ48AHE3_A/I
SMBJ16AHE3/52	SMBJ16AHE3_A/H	SMBJ26CAHE3/52	SMBJ26CAHE3_A/H	SMBJ48AHM3/H	SMBJ48AHM3_A/H
SMBJ16AHE3/5B	SMBJ16AHE3_A/I	SMBJ26CAHE3/5B	SMBJ26CAHE3_A/I	SMBJ48AHM3/I	SMBJ48AHM3_A/I
SMBJ16AHM3/H	SMBJ16AHM3_A/H	SMBJ26CAHM3/H	SMBJ26CAHM3_A/H	SMBJ48CA801HE3/52	SMBJ48CA801HE3_A/H
SMBJ16AHM3/I	SMBJ16AHM3_A/I	SMBJ26CAHM3/I	SMBJ26CAHM3_A/I	SMBJ48CA801HE3/5B	SMBJ48CA801HE3_A/I
SMBJ16CAHE3/52	SMBJ16CAHE3_A/H	SMBJ28AHE3/52	SMBJ28AHE3_A/H	SMBJ48CAHE3/52	SMBJ48CAHE3_A/H
SMBJ16CAHE3/5B	SMBJ16CAHE3_A/I	SMBJ28AHE3/5B	SMBJ28AHE3_A/I	SMBJ48CAHE3/5B	SMBJ48CAHE3_A/I
SMBJ16CAHM3/H	SMBJ16CAHM3_A/H	SMBJ28AHM3/H	SMBJ28AHM3_A/H	SMBJ48CAHM3/H	SMBJ48CAHM3_A/H
SMBJ16CAHM3/I	SMBJ16CAHM3_A/I	SMBJ28AHM3/I	SMBJ28AHM3_A/I	SMBJ48CAHM3/I	SMBJ48CAHM3_A/I
SMBJ170AHE3/52	SMBJ170AHE3_A/H	SMBJ28CAHE3/52	SMBJ28CAHE3_A/H	SMBJ5.0AHE3/52	SMBJ5.0AHE3_A/H
SMBJ170AHE3/5B	SMBJ170AHE3_A/I	SMBJ28CAHE3/5B	SMBJ28CAHE3_A/I	SMBJ5.0AHE3/5B	SMBJ5.0AHE3_A/I
SMBJ170AHM3/H	SMBJ170AHM3_A/H	SMBJ28CAHM3/H	SMBJ28CAHM3_A/H	SMBJ5.0AHM3/H	SMBJ5.0AHM3_A/H
SMBJ170AHM3/I	SMBJ170AHM3_A/I	SMBJ28CAHM3/I	SMBJ28CAHM3_A/I	SMBJ5.0AHM3/I	SMBJ5.0AHM3_A/I
SMBJ170CAHE3/52	SMBJ170CAHE3_A/H	SMBJ30AHE3/52	SMBJ30AHE3_A/H	SMBJ5.0CAHE3/52	SMBJ5.0CAHE3_A/H
SMBJ170CAHE3/5B	SMBJ170CAHE3_A/I	SMBJ30AHE3/5B	SMBJ30AHE3_A/I	SMBJ5.0CAHE3/5B	SMBJ5.0CAHE3_A/I
SMBJ170CAHM3/H	SMBJ170CAHM3_A/H	SMBJ30AHM3/H	SMBJ30AHM3_A/H	SMBJ5.0CAHM3/H	SMBJ5.0CAHM3_A/H
SMBJ170CAHM3/I	SMBJ170CAHM3_A/I	SMBJ30AHM3/I	SMBJ30AHM3_A/I	SMBJ5.0CAHM3/I	SMBJ5.0CAHM3_A/I
SMBJ17AHE3/52	SMBJ17AHE3_A/H	SMBJ30C-001HE3/5B	SMBJ30C-001HE3_A/I	SMBJ51AHE3/52	SMBJ51AHE3_A/H
SMBJ17AHE3/5B	SMBJ17AHE3_A/I	SMBJ30CAHE3/52	SMBJ30CAHE3_A/H	SMBJ51AHE3/5B	SMBJ51AHE3_A/I
SMBJ17AHM3/H	SMBJ17AHM3_A/H	SMBJ30CAHE3/5B	SMBJ30CAHE3_A/I	SMBJ51AHM3/H	SMBJ51AHM3_A/H
SMBJ17AHM3/I	SMBJ17AHM3_A/I	SMBJ30CAHM3/H	SMBJ30CAHM3_A/H	SMBJ51AHM3/I	SMBJ51AHM3_A/I
SMBJ17CAHE3/52	SMBJ17CAHE3_A/H	SMBJ30CAHM3/I	SMBJ30CAHM3_A/I	SMBJ51CAHE3/52	SMBJ51CAHE3_A/H
SMBJ17CAHE3/5B	SMBJ17CAHE3_A/I	SMBJ33AHE3/52	SMBJ33AHE3_A/H	SMBJ51CAHE3/5B	SMBJ51CAHE3_A/I
SMBJ17CAHM3/H	SMBJ17CAHM3_A/H	SMBJ33AHE3/5B	SMBJ33AHE3_A/I	SMBJ51CAHM3/H	SMBJ51CAHM3_A/H
SMBJ17CAHM3/I	SMBJ17CAHM3_A/I	SMBJ33AHM3/H	SMBJ33AHM3_A/H	SMBJ51CAHM3/I	SMBJ51CAHM3_A/I
SMBJ188AHE3/52	SMBJ188AHE3_A/H	SMBJ33AHM3/I	SMBJ33AHM3_A/I	SMBJ54AHE3/52	SMBJ54AHE3_A/H
SMBJ188AHE3/5B	SMBJ188AHE3_A/I	SMBJ33CAHE3/52	SMBJ33CAHE3_A/H	SMBJ54AHE3/5B	SMBJ54AHE3_A/I
SMBJ188AHM3/H	SMBJ188AHM3_A/H	SMBJ33CAHE3/5B	SMBJ33CAHE3_A/I	SMBJ54AHM3/H	SMBJ54AHM3_A/H
SMBJ188AHM3/I	SMBJ188AHM3_A/I	SMBJ33CAHM3/H	SMBJ33CAHM3_A/H	SMBJ54AHM3/I	SMBJ54AHM3_A/I
SMBJ188CAHE3/52	SMBJ188CAHE3_A/H	SMBJ33CAHM3/I	SMBJ33CAHM3_A/I	SMBJ54CAHE3/52	SMBJ54CAHE3_A/H
SMBJ188CAHE3/5B	SMBJ188CAHE3_A/I	SMBJ36AHE3/52	SMBJ36AHE3_A/H	SMBJ54CAHE3/5B	SMBJ54CAHE3_A/I
SMBJ188CAHM3/H	SMBJ188CAHM3_A/H	SMBJ36AHE3/5B	SMBJ36AHE3_A/I	SMBJ54CAHM3/H	SMBJ54CAHM3_A/H
SMBJ188CAHM3/I	SMBJ188CAHM3_A/I	SMBJ36AHM3/H	SMBJ36AHM3_A/H	SMBJ54CAHM3/I	SMBJ54CAHM3_A/I
SMBJ18AHE3/52	SMBJ18AHE3_A/H	SMBJ36AHM3/I	SMBJ36AHM3_A/I	SMBJ58AHE3/52	SMBJ58AHE3_A/H
SMBJ18AHE3/5B	SMBJ18AHE3_A/I	SMBJ36CAHE3/52	SMBJ36CAHE3_A/H	SMBJ58AHE3/5B	SMBJ58AHE3_A/I
SMBJ18AHM3/H	SMBJ18AHM3_A/H	SMBJ36CAHE3/5B	SMBJ36CAHE3_A/I	SMBJ58AHM3/H	SMBJ58AHM3_A/H
SMBJ18AHM3/I	SMBJ18AHM3_A/I	SMBJ36CAHM3/H	SMBJ36CAHM3_A/H	SMBJ58AHM3/I	SMBJ58AHM3_A/I
SMBJ18CAHE3/52	SMBJ18CAHE3_A/H	SMBJ36CAHM3/I	SMBJ36CAHM3_A/I	SMBJ58CAHE3/52	SMBJ58CAHE3_A/H
SMBJ18CAHE3/5B	SMBJ18CAHE3_A/I	SMBJ3V3HE3/52	SMBJ3V3HE3_A/H	SMBJ58CAHE3/5B	SMBJ58CAHE3_A/I
SMBJ18CAHM3/H	SMBJ18CAHM3_A/H	SMBJ3V3HE3/5B	SMBJ3V3HE3_A/I	SMBJ58CAHM3/H	SMBJ58CAHM3_A/H
SMBJ18CAHM3/I	SMBJ18CAHM3_A/I	SMBJ3V3HM3/H	SMBJ3V3HM3_A/H	SMBJ58CAHM3/I	SMBJ58CAHM3_A/I
SMBJ20AHE3/52	SMBJ20AHE3_A/H	SMBJ3V3HM3/I	SMBJ3V3HM3_A/I	SMBJ6.0AHE3/52	SMBJ6.0AHE3_A/H
SMBJ20AHE3/5B	SMBJ20AHE3_A/I	SMBJ40AHE3/52	SMBJ40AHE3_A/H	SMBJ6.0AHE3/5B	SMBJ6.0AHE3_A/I
SMBJ20AHM3/H	SMBJ20AHM3_A/H	SMBJ40AHE3/5B	SMBJ40AHE3_A/I	SMBJ6.0AHM3/H	SMBJ6.0AHM3_A/H
SMBJ20AHM3/I	SMBJ20AHM3_A/I	SMBJ40AHM3/H	SMBJ40AHM3_A/H	SMBJ6.0AHM3/I	SMBJ6.0AHM3_A/I
SMBJ20CAHE3/52	SMBJ20CAHE3_A/H	SMBJ40AHM3/I	SMBJ40AHM3_A/I	SMBJ6.0CAHE3/52	SMBJ6.0CAHE3_A/H
SMBJ20CAHE3/5B	SMBJ20CAHE3_A/I	SMBJ40CAHE3/52	SMBJ40CAHE3_A/H	SMBJ6.0CAHE3/5B	SMBJ6.0CAHE3_A/I
SMBJ20CAHM3/H	SMBJ20CAHM3_A/H	SMBJ40CAHE3/5B	SMBJ40CAHE3_A/I	SMBJ6.0CAHM3/H	SMBJ6.0CAHM3_A/H
SMBJ20CAHM3/I	SMBJ20CAHM3_A/I	SMBJ40CAHM3/H	SMBJ40CAHM3_A/H	SMBJ6.0CAHM3/I	SMBJ6.0CAHM3_A/I
SMBJ22AHE3/52	SMBJ22AHE3_A/H	SMBJ40CAHM3/I	SMBJ40CAHM3_A/I	SMBJ6.5AHE3/52	SMBJ6.5AHE3_A/H
SMBJ22AHE3/5B	SMBJ22AHE3_A/I	SMBJ43AHE3/52	SMBJ43AHE3_A/H	SMBJ6.5AHE3/5B	SMBJ6.5AHE3_A/I
SMBJ22AHM3/H	SMBJ22AHM3_A/H	SMBJ43AHE3/5B	SMBJ43AHE3_A/I	SMBJ6.5AHM3/H	SMBJ6.5AHM3_A/H
SMBJ22AHM3/I	SMBJ22AHM3_A/I	SMBJ43AHM3/H	SMBJ43AHM3_A/H	SMBJ6.5AHM3/I	SMBJ6.5AHM3_A/I
SMBJ22CAHE3/52	SMBJ22CAHE3_A/H	SMBJ43AHM3/I	SMBJ43AHM3_A/I	SMBJ6.5CAHE3/52	SMBJ6.5CAHE3_A/H
SMBJ22CAHE3/5B	SMBJ22CAHE3_A/I	SMBJ43CAHE3/52	SMBJ43CAHE3_A/H	SMBJ6.5CAHE3/5B	SMBJ6.5CAHE3_A/I
SMBJ22CAHM3/H	SMBJ22CAHM3_A/H	SMBJ43CAHE3/5B	SMBJ43CAHE3_A/I	SMBJ6.5CAHM3/H	SMBJ6.5CAHM3_A/H
SMBJ22CAHM3/I	SMBJ22CAHM3_A/I	SMBJ43CAHM3/H	SMBJ43CAHM3_A/H	SMBJ6.5CAHM3/I	SMBJ6.5CAHM3_A/I
SMBJ24AHE3/52	SMBJ24AHE3_A/H	SMBJ43CAHM3/I	SMBJ43CAHM3_A/I	SMBJ60AHE3/52	SMBJ60AHE3_A/H
SMBJ24AHE3/5B	SMBJ24AHE3_A/I	SMBJ45AHE3/52	SMBJ45AHE3_A/H	SMBJ60AHE3/5B	SMBJ60AHE3_A/I
SMBJ24AHM3/H	SMBJ24AHM3_A/H	SMBJ45AHE3/5B	SMBJ45AHE3_A/I	SMBJ60AHM3/H	SMBJ60AHM3_A/H
SMBJ24AHM3/I	SMBJ24AHM3_A/I	SMBJ45AHM3/H	SMBJ45AHM3_A/H	SMBJ60AHM3/I	SMBJ60AHM3_A/I
SMBJ24CAHE3/52	SMBJ24CAHE3_A/H	SMBJ45AHM3/I	SMBJ45AHM3_A/I	SMBJ60CAHE3/52	SMBJ60CAHE3_A/H
SMBJ24CAHE3/5B	SMBJ24CAHE3_A/I	SMBJ45CAHE3/52	SMBJ45CAHE3_A/H	SMBJ60CAHE3/5B	SMBJ60CAHE3_A/I



Product Change Notification



Product Group: Diodes Division / January 31, 2019 / PCN-DD-004-2019

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
SMBJ60CAHM3/H	SMBJ60CAHM3_A/H	SMBJ8.5AHM3/H	SMBJ8.5AHM3_A/H	SMZJ3795BHM3/H	SMZJ3795BHM3_A/H
SMBJ60CAHM3/I	SMBJ60CAHM3_A/I	SMBJ8.5AHM3/I	SMBJ8.5AHM3_A/I	SMZJ3795BHM3/I	SMZJ3795BHM3_A/I
SMBJ64AHE3/52	SMBJ64AHE3_A/H	SMBJ8.5CAHE3/52	SMBJ8.5CAHE3_A/H	SMZJ3796BHE3/52	SMZJ3796BHE3_A/H
SMBJ64AHE3/5B	SMBJ64AHE3_A/I	SMBJ8.5CAHE3/5B	SMBJ8.5CAHE3_A/I	SMZJ3796BHE3/5B	SMZJ3796BHE3_A/I
SMBJ64AHM3/H	SMBJ64AHM3_A/H	SMBJ8.5CAHM3/H	SMBJ8.5CAHM3_A/H	SMZJ3796BHM3/H	SMZJ3796BHM3_A/H
SMBJ64AHM3/I	SMBJ64AHM3_A/I	SMBJ8.5CAHM3/I	SMBJ8.5CAHM3_A/I	SMZJ3796BHM3/I	SMZJ3796BHM3_A/I
SMBJ64CAHE3/52	SMBJ64CAHE3_A/H	SMBJ85AHE3/52	SMBJ85AHE3_A/H	SMZJ3797BHE3/52	SMZJ3797BHE3_A/H
SMBJ64CAHE3/5B	SMBJ64CAHE3_A/I	SMBJ85AHE3/5B	SMBJ85AHE3_A/I	SMZJ3797BHE3/5B	SMZJ3797BHE3_A/I
SMBJ64CAHM3/H	SMBJ64CAHM3_A/H	SMBJ85AHM3/H	SMBJ85AHM3_A/H	SMZJ3797BHM3/H	SMZJ3797BHM3_A/H
SMBJ64CAHM3/I	SMBJ64CAHM3_A/I	SMBJ85AHM3/I	SMBJ85AHM3_A/I	SMZJ3797BHM3/I	SMZJ3797BHM3_A/I
SMBJ7.0AHE3/52	SMBJ7.0AHE3_A/H	SMBJ85CAHE3/52	SMBJ85CAHE3_A/H	SMZJ3798B81HE3/5B	SMZJ3798B81HE3_A/I
SMBJ7.0AHE3/5B	SMBJ7.0AHE3_A/I	SMBJ85CAHE3/5B	SMBJ85CAHE3_A/I	SMZJ3798BHE3/52	SMZJ3798BHE3_A/H
SMBJ7.0AHM3/H	SMBJ7.0AHM3_A/H	SMBJ85CAHM3/H	SMBJ85CAHM3_A/H	SMZJ3798BHE3/5B	SMZJ3798BHE3_A/I
SMBJ7.0AHM3/I	SMBJ7.0AHM3_A/I	SMBJ85CAHM3/I	SMBJ85CAHM3_A/I	SMZJ3798BHM3/H	SMZJ3798BHM3_A/H
SMBJ7.0CAHE3/52	SMBJ7.0CAHE3_A/H	SMBJ9.0AHE3/52	SMBJ9.0AHE3_A/H	SMZJ3798BHM3/I	SMZJ3798BHM3_A/I
SMBJ7.0CAHE3/5B	SMBJ7.0CAHE3_A/I	SMBJ9.0AHE3/5B	SMBJ9.0AHE3_A/I	SMZJ3799BHE3/52	SMZJ3799BHE3_A/H
SMBJ7.0CAHM3/H	SMBJ7.0CAHM3_A/H	SMBJ9.0AHM3/H	SMBJ9.0AHM3_A/H	SMZJ3799BHE3/5B	SMZJ3799BHE3_A/I
SMBJ7.0CAHM3/I	SMBJ7.0CAHM3_A/I	SMBJ9.0AHM3/I	SMBJ9.0AHM3_A/I	SMZJ3799BHM3/H	SMZJ3799BHM3_A/H
SMBJ7.5AHE3/52	SMBJ7.5AHE3_A/H	SMBJ9.0CAHE3/52	SMBJ9.0CAHE3_A/H	SMZJ3799BHM3/I	SMZJ3799BHM3_A/I
SMBJ7.5AHE3/5B	SMBJ7.5AHE3_A/I	SMBJ9.0CAHE3/5B	SMBJ9.0CAHE3_A/I	SMZJ3800BHE3/52	SMZJ3800BHE3_A/H
SMBJ7.5AHM3/H	SMBJ7.5AHM3_A/H	SMBJ9.0CAHM3/H	SMBJ9.0CAHM3_A/H	SMZJ3800BHE3/5B	SMZJ3800BHE3_A/I
SMBJ7.5AHM3/I	SMBJ7.5AHM3_A/I	SMBJ9.0CAHM3/I	SMBJ9.0CAHM3_A/I	SMZJ3800BHM3/H	SMZJ3800BHM3_A/H
SMBJ7.5CAHE3/52	SMBJ7.5CAHE3_A/H	SMBJ90AHE3/52	SMBJ90AHE3_A/H	SMZJ3800BHM3/I	SMZJ3800BHM3_A/I
SMBJ7.5CAHE3/5B	SMBJ7.5CAHE3_A/I	SMBJ90AHE3/5B	SMBJ90AHE3_A/I	SMZJ3801BHE3/52	SMZJ3801BHE3_A/H
SMBJ7.5CAHM3/H	SMBJ7.5CAHM3_A/H	SMBJ90AHM3/H	SMBJ90AHM3_A/H	SMZJ3801BHE3/5B	SMZJ3801BHE3_A/I
SMBJ7.5CAHM3/I	SMBJ7.5CAHM3_A/I	SMBJ90AHM3/I	SMBJ90AHM3_A/I	SMZJ3801BHM3/H	SMZJ3801BHM3_A/H
SMBJ70AHE3/52	SMBJ70AHE3_A/H	SMBJ90CAHE3/52	SMBJ90CAHE3_A/H	SMZJ3801BHM3/I	SMZJ3801BHM3_A/I
SMBJ70AHE3/5B	SMBJ70AHE3_A/I	SMBJ90CAHE3/5B	SMBJ90CAHE3_A/I	SMZJ3802BHE3/52	SMZJ3802BHE3_A/H
SMBJ70AHM3/H	SMBJ70AHM3_A/H	SMBJ90CAHM3/H	SMBJ90CAHM3_A/H	SMZJ3802BHE3/5B	SMZJ3802BHE3_A/I
SMBJ70AHM3/I	SMBJ70AHM3_A/I	SMBJ90CAHM3/I	SMBJ90CAHM3_A/I	SMZJ3802BHM3/H	SMZJ3802BHM3_A/H
SMBJ70CAHE3/52	SMBJ70CAHE3_A/H	SMZJ3788BHE3/52	SMZJ3788BHE3_A/H	SMZJ3802BHM3/I	SMZJ3802BHM3_A/I
SMBJ70CAHE3/5B	SMBJ70CAHE3_A/I	SMZJ3788BHE3/5B	SMZJ3788BHE3_A/I	SMZJ3803BHE3/52	SMZJ3803BHE3_A/H
SMBJ70CAHM3/H	SMBJ70CAHM3_A/H	SMZJ3788BHM3/H	SMZJ3788BHM3_A/H	SMZJ3803BHE3/5B	SMZJ3803BHE3_A/I
SMBJ70CAHM3/I	SMBJ70CAHM3_A/I	SMZJ3788BHM3/I	SMZJ3788BHM3_A/I	SMZJ3803BHM3/H	SMZJ3803BHM3_A/H
SMBJ75AHE3/52	SMBJ75AHE3_A/H	SMZJ3789BHE3/52	SMZJ3789BHE3_A/H	SMZJ3803BHM3/I	SMZJ3803BHM3_A/I
SMBJ75AHE3/5B	SMBJ75AHE3_A/I	SMZJ3789BHE3/5B	SMZJ3789BHE3_A/I	SMZJ3804BHE3/52	SMZJ3804BHE3_A/H
SMBJ75AHM3/H	SMBJ75AHM3_A/H	SMZJ3789BHM3/H	SMZJ3789BHM3_A/H	SMZJ3804BHE3/5B	SMZJ3804BHE3_A/I
SMBJ75AHM3/I	SMBJ75AHM3_A/I	SMZJ3789BHM3/I	SMZJ3789BHM3_A/I	SMZJ3804BHM3/H	SMZJ3804BHM3_A/H
SMBJ75CAHE3/52	SMBJ75CAHE3_A/H	SMZJ3790BHE3/52	SMZJ3790BHE3_A/H	SMZJ3804BHM3/I	SMZJ3804BHM3_A/I
SMBJ75CAHE3/5B	SMBJ75CAHE3_A/I	SMZJ3790BHE3/5B	SMZJ3790BHE3_A/I	SMZJ3805BHE3/52	SMZJ3805BHE3_A/H
SMBJ75CAHM3/H	SMBJ75CAHM3_A/H	SMZJ3790BHM3/H	SMZJ3790BHM3_A/H	SMZJ3805BHE3/5B	SMZJ3805BHE3_A/I
SMBJ75CAHM3/I	SMBJ75CAHM3_A/I	SMZJ3790BHM3/I	SMZJ3790BHM3_A/I	SMZJ3805BHM3/H	SMZJ3805BHM3_A/H
SMBJ78AHE3/52	SMBJ78AHE3_A/H	SMZJ3791BHE3/52	SMZJ3791BHE3_A/H	SMZJ3805BHM3/I	SMZJ3805BHM3_A/I
SMBJ78AHE3/5B	SMBJ78AHE3_A/I	SMZJ3791BHE3/5B	SMZJ3791BHE3_A/I	SMZJ3806BHE3/52	SMZJ3806BHE3_A/H
SMBJ78AHM3/H	SMBJ78AHM3_A/H	SMZJ3791BHM3/H	SMZJ3791BHM3_A/H	SMZJ3806BHE3/5B	SMZJ3806BHE3_A/I
SMBJ78AHM3/I	SMBJ78AHM3_A/I	SMZJ3791BHM3/I	SMZJ3791BHM3_A/I	SMZJ3806BHM3/H	SMZJ3806BHM3_A/H
SMBJ78CAHE3/52	SMBJ78CAHE3_A/H	SMZJ3792BHE3/52	SMZJ3792BHE3_A/H	SMZJ3806BHM3/I	SMZJ3806BHM3_A/I
SMBJ78CAHE3/5B	SMBJ78CAHE3_A/I	SMZJ3792BHE3/5B	SMZJ3792BHE3_A/I	SMZJ3807BHE3/52	SMZJ3807BHE3_A/H
SMBJ78CAHM3/H	SMBJ78CAHM3_A/H	SMZJ3792BHM3/H	SMZJ3792BHM3_A/H	SMZJ3807BHE3/5B	SMZJ3807BHE3_A/I
SMBJ78CAHM3/I	SMBJ78CAHM3_A/I	SMZJ3792BHM3/I	SMZJ3792BHM3_A/I	SMZJ3807BHM3/H	SMZJ3807BHM3_A/H
SMBJ8.0AHE3/52	SMBJ8.0AHE3_A/H	SMZJ3793BHE3/52	SMZJ3793BHE3_A/H	SMZJ3807BHM3/I	SMZJ3807BHM3_A/I
SMBJ8.0AHE3/5B	SMBJ8.0AHE3_A/I	SMZJ3793BHE3/5B	SMZJ3793BHE3_A/I	SMZJ3808BHE3/52	SMZJ3808BHE3_A/H
SMBJ8.0AHM3/H	SMBJ8.0AHM3_A/H	SMZJ3793BHM3/H	SMZJ3793BHM3_A/H	SMZJ3808BHE3/5B	SMZJ3808BHE3_A/I
SMBJ8.0AHM3/I	SMBJ8.0AHM3_A/I	SMZJ3793BHM3/I	SMZJ3793BHM3_A/I	SMZJ3808BHM3/H	SMZJ3808BHM3_A/H
SMBJ8.0CAHE3/52	SMBJ8.0CAHE3_A/H	SMZJ3794BHE3/52	SMZJ3794BHE3_A/H	SMZJ3808BHM3/I	SMZJ3808BHM3_A/I
SMBJ8.0CAHE3/5B	SMBJ8.0CAHE3_A/I	SMZJ3794BHE3/5B	SMZJ3794BHE3_A/I	SMZJ3809BHE3/52	SMZJ3809BHE3_A/H
SMBJ8.0CAHM3/H	SMBJ8.0CAHM3_A/H	SMZJ3794BHM3/H	SMZJ3794BHM3_A/H	SMZJ3809BHE3/5B	SMZJ3809BHE3_A/I
SMBJ8.0CAHM3/I	SMBJ8.0CAHM3_A/I	SMZJ3794BHM3/I	SMZJ3794BHM3_A/I	SMZJ3809BHM3/H	SMZJ3809BHM3_A/H
SMBJ8.5AHE3/52	SMBJ8.5AHE3_A/H	SMZJ3795BHE3/52	SMZJ3795BHE3_A/H	SMZJ3809BHM3/I	SMZJ3809BHM3_A/I
SMBJ8.5AHE3/5B	SMBJ8.5AHE3_A/I	SMZJ3795BHE3/5B	SMZJ3795BHE3_A/I		

➤ Upon this PCN approval, all future custom part number will adopt same change and the part number revision rule.