# Onsemi

Initial Product/Process Change Notification Document #:IPCN25638X Issue Date:16 Aug 2023

Title of Change:	Goodark – SMA, SMB a	Goodark – SMA, SMB and SMC product transfer to a new test and assembly site location		
Proposed First Ship date:	01 May 2024 or earlier if approved by customer			
Contact Information:	Contact your local onse	emi Sales Office or NurulAqilah.AbuHurairah@onsemi.com		
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.			
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < <u>PCN.Support@onsemi.com</u> >			
Marking of Parts/ Traceability of Change:	No change on marking			
Change Category:	Test Change, Assembly	y Change		
Change Sub-Category(s):	Manufacturing Site Transfer			
Sites Affected:				
onsemi Sites		External Foundry/Subcon Sites		
None		Good-Ark, China		

None	
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### **Description and Purpose:**

This Initial Notification announces to customers the transfer of Goodark – SMA, SMB, and SMC products to a new test and assembly site location.

There is no change in the material for assembly and test. The Subcon company remains the same; only the assembly and test site location is being changed. All machines will also be transferred to the new site.

After the PCN is expired or approved, production will only run at the new site, and production will stop in the old plant.

	From	То
Assembly and Test Site	Goodark, No.31, Tongxi Road, Tongan Economic Development	Goodark, No.200, Huajin Road, Tongan
Assembly and Test Site	Zone, 215153, China.	Economic Development Zone, 215153, China.



### **Qualification Plan:**

#### QV DEVICE NAME: MBRA340T3G PACKAGE: SMA

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias 1008	
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C 1000	
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

#### QV DEVICE NAME: MURA160T3G PACKAGE: SMA

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc 1008 h	
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias 1008 h	
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C 1000 c	
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

## QV DEVICE NAME: MBRS410LT3G

PACKAGE: SMC Specification Condition Interval Test Ta=90°C, 100 % max rated Vcc **High Temp Reverse Bias** JESD22-A108 1008 hours High Temperature Storage Life JESD22-A103 Ta= 150°C 1008 hours J-STD-020 JESD-A113 MSL 1 @ 260°C Preconditioning High Temperature High Humidity Reverse Bias JESD22-A101 85°C, 85% RH, reverse bias 1008 hours **Temperature Cycling** JESD22-A104 Ta= -55°C to +150°C 1000 cycles Unbiased Highly Accelerated Stress Test JESD22-A118 130°C, 85% RH, 18.8psig, unbiased 96 hours MIL STD750, M 1037 15000 cycles Intermittent Operating Life Ta= 25°C, Tj= 100°C max, 2min on/off AEC Q101 Ta = 268°C, 10 sec **Resistance to Solder Heat** JESD22- B106 Required for through hole devices only Solderability JSTD002 Ta = 245°C, 5 sec

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#### QV DEVICE NAME: MBRS4201T3G PACKAGE: SMC

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc 1008 h	
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hours
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C 100	
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

#### QV DEVICE NAME: MURS360BT3G PACKAGE: SMB

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc 1008 h	
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Steady State Operation Life	Mil-Std-750 M1038	Ta= 25°C, Tj = 150°C max	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hours
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

Estimated date for qualification completion: 31 December 2023

## List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle	
MURS260T3G MURS360BT3G		
MURHS160T3G	MURS360BT3G	
MURS140T3G	MURS360BT3G	
MURS160T3G MURS360BT3G		
MURS230T3G	MURS360BT3G	



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MURS10513GMURS10513GMURS11073GMURS300813GMURS11573GMURS300813GMURS12073GMURS300813GMURS2073GMURS300813GMURS2073GMURS300813GMURS2073GMURS300813GMBR532073GMURS300813GMBR532073GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GS22473GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GMBR52073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS300813GMBR51073GMURS30073G, MURA16073GMBR51073GMBR51073GMBR51073GMBR51073GMURA21573GMBR34073G, MURA16073GMURA21573GMBR34073G, MURA16073GMURA20573GMBR34073G, MURA16073GMURA20573GMBR34073G, MURA16073GMURA20573GMBR540173GMBR53073GMBR540173GMBR53073GMBR540173GMBR53073GMBR540173GMBR52073GMBR540173GMBR52073GMBR540173GMBR5207	MURS240T3G	MURS360BT3G	
MURS115T3GMURS360BT3GMURS120T3GMURS360BT3GMURS220T3GMURS360BT3GMURS220T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR5130T3GMURS360BT3GMBR526T3GMURS360BT3GMBR526T3GMURS360BT3GMBR51540T3GMURS360BT3GMBR5140T3GMURS360BT3GMBR5140T3GMURS360BT3GMBR5140T3GMURS360BT3GMBR340T3G, MURA160T3GMURS360BT3GMBR340T3GMBR340T3G, MURA160T3GMBR340T3GMBR340T3G, MURA160T3GMURA220T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMURA20T3GMBRA340T3G, MURA160T3GMBRS340T3GMBRS340T3GMBRS340T3GMBRS401T3G, MBRS401T3GMBRS340T3GMBRS401T3G, MBRS401T3GMBRS340T3GMBRS401T3G, MBRS401T3G, MBRS401T3GMBRS340T3GMBRS401T3G, MBRS401T3G, MBRS401T3G, MBRS401T3G, MBRS401T3GMBRS310T3GMBRS401T3G, MBRS401T3G, MBRS401T3GMBRS310T3GMB	MURS105T3G	MURS360BT3G	
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MBRS12013G MURS360B73G   MBRS230L73G MURS360B73G   MBRS130L73G MURS360B73G   SS2673G MURS360B73G   SS2473G MURS360B73G   MBRS26073G MURS360B73G   MBRS26073G MURS360B73G   MBRS26073G MURS360B73G   MBRS14073G MURS360B73G   MBRS14073G MURS360B73G   MBRS140173G MURS360B73G   MBRS410173G MURS360B73G   MBRS410173G MURS360B73G   MBRS410173G MURS360B73G   MBRS410173G MURS360B73G   MBRS410173G MURS360B73G   MBRS410173G MURS360B73G   MURA21073G MBR34073G, MURA16073G   MURA21073G MBR34073G, MURA16073G   MURA20573G MBR34073G, MURA16073G   MURA2073G MBR34013G, MURA16073G   MURA2073G MBR34013G, MURA16073G   MURA2073G MBR34013G, MURA16073G   MURA2073G MBR34013G, MURA16073G   MURA2073G MBR5420173G   MBR534073G MBR5420173G	MBRS3200T3G	MURS360BT3G	
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MBRS540T3GMBRS410LT3G, MBRS4201T3GMBRS3201T3GMBRS410LT3G, MBRS4201T3GMBRS3100T3GMBRS410LT3G, MBRS4201T3GMBRS4201T3GMBRS410LT3G, MBRS4201T3G	MBRS330T3G	MBRS410LT3G, MBRS4201T3G	
MBRS3201T3GMBRS410LT3G, MBRS4201T3GMBRS3100T3GMBRS410LT3G, MBRS4201T3GMBRS4201T3GMBRS410LT3G, MBRS4201T3G	MBRS320T3G	MBRS410LT3G, MBRS4201T3G	
MBRS3100T3GMBRS410LT3G, MBRS4201T3GMBRS4201T3GMBRS410LT3G, MBRS4201T3G	MBRS540T3G	MBRS410LT3G, MBRS4201T3G	
MBRS4201T3G MBRS410LT3G, MBRS4201T3G	MBRS3201T3G	MBRS410LT3G, MBRS4201T3G	
	MBRS3100T3G	MBRS410LT3G, MBRS4201T3G	
	MBRS4201T3G	MBRS410LT3G, MBRS4201T3G	
SS1613G MBRA340T3G, MURA160T3G	SS16T3G	MBRA340T3G, MURA160T3G	



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MBRA140T3G	MBRA340T3G, MURA160T3G	
MBRA1H100T3G	MBRA340T3G, MURA160T3G	
MBRA320T3G	MBRA340T3G, MURA160T3G	
MBRA160T3G	MBRA340T3G, MURA160T3G	
MBRA130LT3G	MBRA340T3G, MURA160T3G	
MBRA120ET3G	MBRA340T3G, MURA160T3G	
SS22T3G	MURS360BT3G	
MBRS240LT3G	MURS360BT3G	
MBRS2040LT3G	MURS360BT3G	
MBRS360BT3G	MURS360BT3G	
MBRS1100T3G	MURS360BT3G	
MBRS190T3G	MURS360BT3G	
MBRS2H100T3G	MURS360BT3G	
MURS360BT3G	MURS360BT3G	
MURA115T3G	MBRA340T3G, MURA160T3G	
MURA110T3G	MBRA340T3G, MURA160T3G	
MURA105T3G	MBRA340T3G, MURA160T3G	
MURA260T3G	MBRA340T3G, MURA160T3G	
MURA230T3G	MBRA340T3G, MURA160T3G	
MURA160T3G	MBRA340T3G, MURA160T3G	
MURA140T3G	MBRA340T3G, MURA160T3G	
MURA130T3G	MBRA340T3G, MURA160T3G	
MURA240T3G	MBRA340T3G, MURA160T3G	
MBRS360T3G	MBRS410LT3G, MBRS4201T3G	



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PCN Product List Addendum for:

Customer Contact Name: Dropbox 1 Future

Customer Contact Email: pcn.system@futureelectronics.com

# Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MBRA1H100T3G	MBRA1H100T3G	MBRA340T3G, MURA160T3G	NA	
MBRA1H100T3G	MBRA1H100T3G-CT	MBRA340T3G, MURA160T3G	NA	
MBRA320T3G	MBRA320TR	MBRA340T3G, MURA160T3G	NA	
MBRA160T3G	MBRA160T3	MBRA340T3G, MURA160T3G	NA	
MBRA160T3G	MBRA160T3-LF	MBRA340T3G, MURA160T3G	NA	
MBRA130LT3G	MBRA130LT3	MBRA340T3G, MURA160T3G	NA	
MBRA130LT3G	MBRA130LT3-LF	MBRA340T3G, MURA160T3G	NA	
MBRA140T3G	SS14TR	MBRA340T3G, MURA160T3G	NA	
MBRA120ET3G	MBRA120ET3	MBRA340T3G, MURA160T3G	NA	
SS16T3G	SS16TR	MBRA340T3G, MURA160T3G	NA	
MBRS4201T3G	MBRS4201T3	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS3100T3G	MBRS3100T3	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS3100T3G	BRS3100T3-STONERIDGE	MBRS410LT3G, MBRS4201T3G	NA	
MBRS3100T3G	MBRS3100T3-STONERIDGE		NA	
MBR3310013G	MDR3310013-STONERIDGE	MBRS410LT3G, MBRS4201T3G	NA	
MBRS3201T3G	MBRS3201T3	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS540T3G	MBRS540T3	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS540T3G	MBRS540T3G-CT	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS320T3G	MBRS320T3-LF	MBRS410LT3G, MBRS4201T3G	NA	
MBRS320T3G	MBRS320T3	MBRS410LT3G,	NA	
MD13320130	1011332013	MBRS4201T3G		
MBRS330T3G	MBRS330T3	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS330T3G	MBRS330T3-CT	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS340T3G	MBRS340T3-LF	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS340T3G	MBRS340T3	MBRS410LT3G,	NA	
		MBRS4201T3G		

# Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MBRS340T3G	MBRS340T3-CT	MBRS410LT3G,	NA	
		MBRS4201T3G		
MURA120T3G	MURA120T3	MBRA340T3G, MURA160T3G	NA	
MURA210T3G	MURA210T3	MBRA340T3G,	NA	
		MURA160T3G		
MURA205T3G	MURA205TR	MBRA340T3G, MURA160T3G	NA	
MURA215T3G	MURA215T3G	MBRA340T3G, MURA160T3G	NA	
MURA215T3G	MURA215T3	MBRA340T3G, MURA160T3G	NA	
MURA220T3G	MURA220T3	MBRA340T3G, MURA160T3G	NA	
MBRA210LT3G	MBRA210LT3	MBRA340T3G, MURA160T3G	NA	
MBRA340T3G	MBRA340TR	MBRA340T3G,	NA	
		MURA160T3G		
MBRA340T3G	MBRA340TR-LF	MBRA340T3G, MURA160T3G	NA	
MBRA2H100T3G	MBRA2H100T3G	MBRA340T3G, MURA160T3G	NA	
MBRS140T3G	MBRS140T3	MURS360BT3G	NA	
MBRS410LT3G		MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS140T3G	MBRS140T3-CT	MURS360BT3G	NA	
MBRS140T3G	MBRS140T3-LF	MURS360BT3G	NA	
MBRS1540T3G	MBRS1540TR3	MURS360BT3G	NA	
MBRS260T3G	MBRS260T3	MURS360BT3G	NA	
MBRS260T3G	MBRS260T3-CT	MURS360BT3G	NA	
SS24T3G	SS24TR	MURS360BT3G	NA	
SS22T3G	SS22TR	MURS360BT3G	NA	
SS24T3G	SS24TR-LF	MURS360BT3G	NA	
SS26T3G	SS26TR	MURS360BT3G	NA	
SS26T3G	SS26TR-LF	MURS360BT3G	NA	
MBRS130LT3G	MBRS130LT3	MURS360BT3G	NA	
MBRS130LT3G	MBRS130LT3-LF	MURS360BT3G	NA	
MBRS230LT3G	MBRS230LT3	MURS360BT3G	NA	
MBRS120T3G	MBRS120T3	MURS360BT3G	NA	
MBRS120T3G	MBRS120T3-LF	MURS360BT3G	NA	
MBRS130T3G	MBRS130T3	MURS360BT3G	NA	
MBRS3200T3G	MBRS3200T3	MURS360BT3G	NA	
MBRS240LT3G	MBRS240LT3G	MURS360BT3G	NA	
MBRS240LT3G	MBRS240LT3	MURS360BT3G	NA	
MBRS2040LT3G	MBRS2040LT3-LF	MURS360BT3G	NA	
MBRS2040LT3G	MBRS2040LT3	MURS360BT3G	NA	
MBRS360BT3G	MBRS360BTR	MURS360BT3G	NA	
MBRS1100T3G	MBRS1100T3	MURS360BT3G	NA	
MBRS1100T3G	MBRS1100T3-BECOM	MURS360BT3G	NA	
MBRS1100T3G	MBRS1100T3-LF	MURS360BT3G	NA	
MBRS190T3G	MBRS190TR	MURS360BT3G	NA	
MBRS2H100T3G	MBRS2H100T3-CT	MURS360BT3G	NA	
MBRS2H100T3G	MBRS2H100T3	MURS360BT3G	NA	
MURS360BT3G	MURS360BT3	MURS360BT3G	NA	
MURS220T3G	MURS220T3	MURS360BT3G	NA	
MURS210T3G	MURS210T3	MURS360BT3G	NA	
MURS120T3G	MURS120T3-LF	MURS360BT3G	NA	

# Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MURS115T3G	MURS115T3-CT	MURS360BT3G	NA	
MURS115T3G	MURS115T3	MURS360BT3G	NA	
MURS110T3G	MURS110T3	MURS360BT3G	NA	
MURS240T3G	MURS240T3	MURS360BT3G	NA	
MURS105T3G	MURS105T3	MURS360BT3G	NA	
MURS160T3G	MURS160T3/	MURS360BT3G	NA	
	L-3			
MURS230T3G	MURS230T3G	MURS360BT3G	NA	
MURS160T3G	MURS160T3	MURS360BT3G	NA	
MURS160T3G	MURS160T3-CT	MURS360BT3G	NA	
MURS160T3G	MURS160T3-LF	MURS360BT3G	NA	
MURS140T3G	MURS140T3	MURS360BT3G	NA	
MURHS160T3G	MURHS160T3	MURS360BT3G	NA	
MURS260T3G	MURS260TR	MURS360BT3G	NA	
MURA115T3G	MURA115T3	MBRA340T3G,	NA	
		MURA160T3G		
MURA110T3G	MURA110T3	MBRA340T3G, MURA160T3G	NA	
MURA260T3G	MURA260T3	MBRA340T3G,	NA	
		MURA160T3G		
MURA105T3G	MURA105T3	MBRA340T3G, MURA160T3G	NA	
MURA260T3G	MURA260T3-CT	MBRA340T3G,	NA	
		MURA160T3G		
MURA260T3G	MURA260T3G-CT	MBRA340T3G, MURA160T3G	NA	
MURA230T3G	MURA230T3G	MBRA340T3G, MURA160T3G	NA	
MURA160T3G	MURA160T3	MBRA340T3G, MURA160T3G	NA	
MURA160T3G	MURA160T3-CT	MBRA340T3G, MURA160T3G	NA	
MURA140T3G	MURA140TR	MBRA340T3G,	NA	
		MURA160T3G		
MURA140T3G	MURA140TR-LF	MBRA340T3G, MURA160T3G	NA	
MURA140T3G	US1GTR	MBRA340T3G,	NA	
		MURA160T3G		
MURA130T3G	MURA130T3	MBRA340T3G, MURA160T3G	NA	
MURA240T3G	MURA240T3	MBRA340T3G, MURA160T3G	NA	
MBRS360T3G	MBRS360T3	MBRS410LT3G,	NA	
		MBRS4201T3G		
MBRS360T3G	MBRS360T3-LF	MBRS410LT3G,	NA	
		MBRS4201T3G		