


Standardized Information for Process/Product Change Notification (PCN)

Form provided by ZVEI - Revision 4.0

1. PCN basic data		
1.1 Company		TAIWAN SEMICONDUCTOR CO.,LTD
1.2 PCN No.	PCN20006	
1.3 Title of PCN	SMA,SMB,SMC TVS<10V series of consumer products transfer to fully-automated backend assembly line	
1.4 Product Category	Active Components - Integrated Circuits	
1.5 Issue date	2020/05/19	
1.6 PCN revision history (optional)	1.7 Issue date of previous revision (optional)	1.8 Delta to previous revision (optional)

2. PCN Team		
2.1 Contact supplier		
2.1.1 Name	Sunnie Lin	
2.1.2 Phone	+886-2-8913-1588 Ext:2205	
2.1.3 Email	sunnie.lin@mail.ts.com.tw	
2.2 Team supplier (optional)		
2.2.1 Name (optional)	2.2.2 Phone (optional)	2.2.3 Email (optional)
Vince Lee	+86-543-869-1091 Ext.: 3101	vince.lee@mail.tsyew.com.cn
Ken Kan	+886-2-8913-1588 Ext.: 2103	ken_kan@mail.ts.com.tw

3. Changes			
No.	3.0 Ident	3.1 Category	3.2 Type of change
#1	SEM-PA-11	PROCESS - ASSEMBLY	Change of mold compound / encapsulation material
#2	SEM-PA-13	PROCESS - ASSEMBLY	Change of product marking
#3	SEM-PA-14	PROCESS - ASSEMBLY	Change in process technology (e.g. trim and form, leadframe preparation ...)
#4	SEM-PS-01	PACKING/SHIPPING	Packing/shipping specification change
#5	SEM-PS-03	PACKING/SHIPPING	Change of carrier (tray, reel)

4. Description of change		
	Old	New
Change #1	SMA,SMB,SMC TVS<10V series Consumer (Non-HF) Type: EME-1200 Material : Epoxy  Consumer (HF) Type: EK1800 Material : Epoxy	SMA,SMB,SMC TVS<10V series  Consumer (HF) Type: EME-E500 Material : Epoxy
Change #2	Marking no square around datecode	Marking add special square around datecode

<p><b>Change #3</b></p>	<p>Manual production line</p>	<p>Fully-automated production line</p>
<p><b>Change #4</b></p>	<p>Manual Line Packing Code SMA : R2, M2 and R3 SMB : R4, M4 and R5 SMC : R6, M6 and R7</p>	<p>Fully-automated Line Packing Code SMA : M2 and R3 SMB : M4 and R5 SMC : V6 and V7</p>
<p><b>Change #5</b></p>	<p>Packing Refer to the picture of the comparison report</p>	<p>Packing Refer to the picture of the comparison report</p>
<p><b>4.1 Anticipated impact on form, fit, function, reliability or processability?</b></p>	<p>No impact in form, fit, function and reliability but better processability for upgrade to fully automatic.</p>	
<p><b>4.2 Reference parts with customer number (optional)</b></p>		

5. Reason / motivation for change	
5.1 Motivation	Change from manual assembly line to automatic assembly line for TVS<10V series
5.2 Additional explanation (optional)	

6. Marking of parts / traceability of change	
6.1 Description	Use diferent packing code to control

7. Timing / schedule		
7.1 Date of qualification results	2020/04/16	
7.2 Last order date (optional)	2020/11/15	
7.3 Last delivery date (optional)	2021/11/15	
7.4 Intended start of delivery	2020/11/15	
7.5 Qualification samples available?	Can be submitted 2 weeks upon receipt of customer order.	
7.6 Customer feedback required until	2020/07/03	

8. Qualification / validation			
8.1 Description (e.g. qual. plan/report, AEC-Q...)	According to AEC-Q101D		
8.2 Qualification report and qualification results	available (see attachment)	issue date	2020/04/16

9. Input to customer for risk assessment process
Equipment: Low Risk Technique-Wafer: Low Risk Technique-Assembly: Low Risk Sample submit time: within 14 days Form/ Fit / Function: Low Risk Reliability: Low Risk

10. Attachments (e.g. new datasheet, additional documentation, pictures, process flow, sample plan, ...)
Refer to the official e-mail announcement for the applicable documents.

11. Affected parts									
11.1 Current						11.2 New (if applicable)			
11.1.1 Customer Part No.	11.1.2 Supplier Part Name	11.1.3 Supplier Part No. (optional)	11.1.4 Package Name	11.1.5 Part Description (optional)	11.1.6 Additional Part Information (optional)	11.2.2 Supplier Part Name	11.2.3 Supplier Part No. (optional)	11.2.4 Package Name	11.2.6 Additional Part Information (optional)

