Standardized Information for Process/Product Change Notification (PCN)

	1. PCN basic data	-			
1.1 Company TAIWAN SEMICONDUCTOR TAIWAN SEMICONDUCTOR CO.,LTD					
1.2 PCN No.	PCN21007				
1.3 Title of PCN	SMD Products Change of Encapsulation Material, Packing Material and Datasheet Revision	100			
1.4 Product Category	Active Components - Discrete Components	▼ 3			
1.5 Issue date	2021/05/12				
1.6 PCN revision history (optional)	1.7 Issue date of previous 1.8 Delta to previous revision (optional) revision (optional)	7.0			

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	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 5438691091 ext. 3101	vince.lee@mail.tsyew.com.cn					
Danny Lin	+886-2-8913-1588 Ext:2133	danny.lin@mail.ts.com.tw					

	3. Changes							
No.	3.0 Ident	3.1 Category	3.2 Type of change					
#1	SEM-DS-02	DATA SHEET	Correction of data sheet / errata					
#2	SEM-PA-11	PROCESS - ASSEMBLY	Change of mold compound / encapsulation material					
#3	SEM-PS-01	PACKING/SHIPPING	Packing/shipping specification change					

	4. Description of change			
	Old	New		
Change #1	Ordering Information (with Packing Code)	Ordering Information (Without Packing Code)		
	• None	Add note: Meets ISO 7637-2 (Pulse 1/2a/3a/3b) (TVS Products Only)		
Change #2	Non Green Compound and Green Cpmpound	Green Compound		
Change #3	13/7 inch Plastic & Paper Reel & Tube	• 13 inch Plastic Reel		
	Sub SMA: 8/12 mm tape width different number of pieces on reel (1800, 3000, 7500, 10000)	Sub SMA : 8mm tape width 10000 pieces		
4.1 Anticipated impact on form, fit, function, reliability or processability?	Not impact the form, fit, function, reliability or processabi	lity.		
4.2 Reference parts with customer number (optional)				

5. Reason / motivation for change						
	Taiwan Semiconductor will implement halogen-free (green) epoxy molding for all SMD devices to be compliant to global environmental initiatives in line with IEC 61249-2-21. Accordingly, the packing material will be standardized to 13 inch plastic reel. In line with this change, the product datasheets will also be revised to simplify the ordering code. TVS Products manufactured in SOD-123W, SOD-128 and Thin SMA packages will have a note in datasheet describing the compliance to ISO 7637-2					
5.2 Additional explanation (optional)						

6. Marking of parts / traceability of change				
6.1 Description	Product date code to traceability			

7. Timing / schedule						
7.1 Date of qualification results	Qualification date are based on different product package					
7.2 Last order date (optional)	2022/12/31 with packing code parts					
7.3 Last delivery date (optional)	2023/06/30	with packing code parts				
7.4 Intended start of delivery	2021/10/01 without packing code parts					
7.5 Qualification samples available?	When get customer order and after 2 weeks can be submitted					
7.6 Customer feedback required until	2021/06/26					

8. Qualification / validation						
8.1 Description (e.g. qual. plan/report, AEC-Q)						
8.2 Qualification report and qualification results	available (see attachement)	issue date				

9. Input to customer for risk assessment process

There is no impact in product specification, functionality, quality, reliability. Implementing the change to green compound will guarantee Taiwan Semiconductor commitment on environmental protection.

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	Supplier Part	11.2.4 Package Name	11.2.6 Additional Part Information (optional)

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