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.		PCN20007
1.3 Title of PCN		Change Molding Compound of Plastic MELF Package to Halogen-Free Version
1.4 Product Category		Active Components - Integrated Circuits
1.5 Issue date		2020/05/27

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)
Chris Lin	+886-2-8913-1588 Ext.: 2406	chris_lin@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

4. Description of change		
	Old	New
Change #1	Molding Compound for Non-Halogen-Free	Change Molding Compound to Halogen-Free
4.1 Anticipated impact on form, fit, function, reliability or processability?	Not impact the form, fit, function, reliability or processability	
4.2 Reference parts with customer number (optional)		

Form provided by ZVEI - Revision 4.0

5. Reason / motivation for change	
5.1 Motivation	Change Molding Compound of Plastic MELF Package to Halogen-Free Version
5.2 Additional explanation (optional)	

6. Marking of parts / traceability of change	
6.1 Description	Use data code to traceability

7. Timing / schedule		
7.1 Date of qualification results	2020/03/20	
7.2 Last order date (optional)	2020/11/25	
7.3 Last delivery date (optional)	2021/11/25	
7.4 Intended start of delivery	2020/08/27	
7.5 Qualification samples available?	When get customer order and after 2 weeks can be submitted	
7.6 Customer feedback required until	2020/07/13	

8. Qualification / validation				
8.1 Description (e.g. qual. plan/report, AEC-Q...)	According to JESD22			
8.2 Qualification report and qualification results	available (see attachement)	**issue date**	2020/03/20	

9. Input to customer for risk assessment process
Human Resource : No Risk Equipment : No Risk Technique-Wafer : No Risk Technique-Assembly : No Risk Form/ Fit / Function : No Risk Reliability : No 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)**

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PCN20007_Involved P/N list

Family	Package	TSC P/N	New TSC P/N
Schottky	MELF	LL5817 L0	LL5817 L0G
Schottky	MELF	LL5817-J0 L0	LL5817 L0G
Schottky	MELF	LL5818 L0	LL5818 L0G
Schottky	MELF	LL5818-J0 L0	LL5818 L0G
Schottky	MELF	LL5819 L0	LL5819 L0G
Schottky	MELF	LL5819-J0 L0	LL5819 L0G
Schottky	MELF	LSR102 L0	LSR102 L0G
Schottky	MELF	LSR102-J0 L0	LSR102 L0G
Schottky	MELF	LSR103 L0	LSR103 L0G
Schottky	MELF	LSR103-J0 L0	LSR103 L0G
Schottky	MELF	LSR104 L0	LSR104 L0G
Schottky	MELF	LSR104-J0 L0	LSR104 L0G
Schottky	MELF	LSR105 L0	LSR105 L0G
Schottky	MELF	LSR105-J0 L0	LSR105 L0G
Schottky	MELF	LSR106 L0	LSR106 L0G
Schottky	MELF	LSR106-J0 L0	LSR106 L0G
Standard Recovery Rectifier	MELF (Plastic)	LL4001G L0	LL4001G L0G
Standard Recovery Rectifier	MELF (Plastic)	LL4002G L0	LL4002G L0G
Standard Recovery Rectifier	MELF (Plastic)	LL4003G L0	LL4003G L0G
Standard Recovery Rectifier	MELF (Plastic)	LL4004G L0	LL4004G L0G
Standard Recovery Rectifier	MELF (Plastic)	LL4005G L0	LL4005G L0G
Standard Recovery Rectifier	MELF (Plastic)	LL4006G L0	LL4006G L0G
Standard Recovery Rectifier	MELF (Plastic)	LL4007G L0	LL4007G L0G

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