



Final Product/Process Change Notification

Document #:FPCN22239ZG

Issue Date:10 Nov 2021

Title of Change:	Henkel Green Compound Qualification for SOT23 package.	
Proposed Changed Material First Ship Date:	01 Jun 2022 or earlier if approved by customer	
Current Material Last Order Date:	30 Apr 2022 <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>	
Current Material Last Delivery Date:	31 May 2022 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>	
Product Category:	Active components – Discrete components	
Contact information:	Contact your local onsemi Sales Office or PCN.Support@onsemi.com or Contact Alex.Zhang@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order or < PCN.samples@onsemi.com >. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Sample Availability Date:	31 Dec 2021	
PPAP Availability Date:	31 Dec 2021	
Additional Reliability Data:	Contact your local onsemi Sales Office or c.l.yang@lps.com.cn	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com .	
Change Category		
Category	Type of Change	
Process - Assembly	Change of mold compound	
Description and Purpose:		
This Product Change Notification is to announce the Henkel Green Compound Qualification for SOT23 package.		
	Before Change Description	After Change Description
Mold Compound	Hitachi GE200F	Henkel GR640 HV
There is no product marking change as a result of this change.		
Reason / Motivation for Change:	Process/Materials Change	
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.	



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Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
Leshan Phoenix Semiconductor, China	None

Marking of Parts/ Traceability of Change:	Trace by date code
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Reliability Data Summary:

QV DEVICE NAME: SMMBTA42LT1G/SMMBTA92LT1G
RMS: 41152,41155
PACKAGE: SOT23

Test	Specification	Condition	Interval	Result
PC	JESD22-A113	MSL 1 @ 260 °C	Before TC, UHAST, HAST, IOL	-
UHAST	JESD22-A118	Ta=130C, 85% RH, no bias, 96 hrs	96 hrs	0/231
TC	JESD22-A104	Ta= - 65°C to +150°C	2000 cyc	0/231
HAST	JESD22-A110	130C/85%RH, 80% rated V or 42V max, 192 hours.	192 hrs	0/231
IOL	MIL-STD-750	Ta=+25°C, delta Tj=100°C, On/off = 2 min	30000 cyc	0/231
HTRB	JESD22- A108	Tj= max, V=100% rated V, 1008 Hrs	2016 hrs	0/231
HTSL	JESD22- A103	Temp.=150°C,no bias,2016hours	2016 hrs	0/231
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/231

NOTE: AEC-1pager is attached.

To view attachments:

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file.

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

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**](#).

Current Part Number	New Part Number	Qualification Vehicle
NSVMMBT6520LT1G	NA	SMMBTA92LT1G
SMMBTH10-4LT3G	NA	SMMBTA42LT1G
SMMBT2369LT1G	NA	SMMBTA42LT1G
SMMBT2369ALT1G	NA	SMMBTA42LT1G
NSVMMBTH10LT1G	NA	SMMBTA42LT1G

Appendix A: Changed Products
PCN#: FPCN22239ZG
Issue Date: Nov 09, 2021

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NSVMMBT6520LT1G		SMMBTA92LT1G	NA	
SMMBT2369ALT1G		SMMBTA42LT1G	NA	
NSVMMBTH10LT1G		SMMBTA42LT1G	NA	
SMMBT2369LT1G		SMMBTA42LT1G	NA	