



Final Product/Process Change Notification

Document #:FPCN23066ZA

Issue Date:10 Nov 2021

Title of Change:	Henkel Green Compound Qualification for SOD123, SOT553,SOT563,SOT143 and SC59 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 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 SOD123, SOT553,SOT563,SOT143 and SC59 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		
Reliability Data Summary:				
QV DEVICE NAME: NRVB0540T1G				
RMS: 60681				
PACKAGE: SOD123				
Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	2016 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30K cyc	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	2000 cyc	0/231
HAST	JESD22-A110	110°C, 85% RH, 3psig, bias	528 hrs	0/231
uHAST	JESD22-A118	110°C, 85% RH, 3psig, unbiased	264 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-	-
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30
SD	JSTD002	Ta = 245C, 5 sec	-	0/ 30
Electrical Characteristics Summary:				
Electrical characteristics are not impacted.				
List of Affected Parts:				
<i>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.</i>				
Current Part Number	New Part Number		Qualification Vehicle	
SBR80520LT3G	NA		NRVB0540T1G	
SBR80520LT1G	NA		NRVB0540T1G	
NRVB130T3G	NA		NRVB0540T1G	
NRVB130T1G	NA		NRVB0540T1G	
NRVB0540T3G	NA		NRVB0540T1G	
NRVB0540T1G	NA		NRVB0540T1G	
NRVB0530T3G	NA		NRVB0540T1G	
NRVB0530T1G	NA		NRVB0540T1G	

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
SBR80520LT3G		NRVB0540T1G	NA	
SBR80520LT1G		NRVB0540T1G	NA	
NRVB130T3G		NRVB0540T1G	NA	
NRVB130T1G		NRVB0540T1G	NA	
NRVB0540T3G		NRVB0540T1G	NA	
NRVB0540T1G		NRVB0540T1G	NA	
NRVB0530T3G		NRVB0540T1G	NA	
NRVB0530T1G		NRVB0540T1G	NA	