

Final Product/Process Change Notification Document #:FPCN23066ZA

Issue Date:10 Nov 2021

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Samples Contact: 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 custome packing/label requirements. Sample Availability Date: 31 Dec 2021 PPAP Availability Date: 31 Dec 2021 Contact your local onsemi Sales Office or c.l.yang@lps.com.cn 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	Contact information:	•	
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Category Type of Change			
	Category	Type of Change	
Process - Assembly Change of mold compound	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 <u>brs</u>	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 <u>cyc</u>	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	2000 ςχς	0/231
HAST	JESD22-A110	110°C, 85% RH, 3psig, bias	528 <u>brs</u>	0/231
uHAST	JESD22-A118	110°C, 85% RH, 3psig, unbiased	264 <u>brs</u>	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:

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 <u>PCN Customized Portal</u>.

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

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