



Final Product/Process Change Notification

Document #:FPCN23066XA

Issue Date:05 Nov 2021

Title of Change:	Henkel Green Compound 2nd source Qualification for SOD123, SOT553, SOT563, SOT143 and SC59 package.
Proposed First Ship date:	01 Mar 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi sales office or PCN.Support@onsemi.com or Alex.Zhang@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office or < PCN.samples@onsemi.com >. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
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. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	No update marking of parts, it is traceability of date code.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

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

Description and Purpose:

This Product Change Notification is to announce the Henkel Green Compound 2nd source Qualification for SOD123, SOT553, SOT563, SOT143 and SC59 package.

	Before Change Description	After Change Description
Mold Compound	Hitachi GE200F	Hitachi GE200F Henkel GR640 HV

There is no product marking change as a result of this change.



Reliability Data Summary:

QV DEVICE NAME: SMBT2000T1G
RMS: 39349 & 43095
PACKAGE: SC74

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	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 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

QV DEVICE NAME: SMMBTA42LT1G
RMS: 41152
PACKAGE: SOT23

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	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 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:

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](#).

Part Number	Qualification Vehicle
MSA1162GT1G	SMBT2000T1G + SMMBTA42LT1G
MSD601-RT1G	SMBT2000T1G + SMMBTA42LT1G

Appendix A: Changed Products

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Issue Date: Nov 04, 2021

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MSA1162GT1G		SMBT2000T1G + SMMBTA42LT1G	NA	
MSD601-RT1G		SMBT2000T1G + SMMBTA42LT1G	NA	