Final Product/Process Change Notification

Document #:FPCN23990X
Issue Date:06 Jan 2022

Title of Change:	Wire conversion from 2.0 mil Au to 2.0 mil bare Cu wire and change of mold compound impacting Low VCE(sat) BJTs assembled in SOIC-8 package
Proposed First Ship date:	13 Apr 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office
PCN Samples Contact:	Contact your local onsemi Sales Office. 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 Nhel.Malonzo@onsemi.com
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:	Customers may receive these parts once FPCN expired. These parts can be identified through date code marking.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites	**External Foundry/Subcon Sites**
onsemi Carmona, Philippines	None

Description and Purpose:

Conversion of Copper wire from 2.0 mils Au wire into 2.0 mils Bare Cu wire and mold compound changes from EME G600 to EME G700LS.

Purpose of the changes for material standardized.

	Before Change Description	After Change Description
Bond Wire	2.0 mils Au	2.0 mils Bare Cu
Mold Compound	EME G600	EME G700LS

There is no product marking change.

Reliability Data Summary:

QV DEVICE NAME: NSV40302PDR2G
RMS: O77475
PACKAGE: SOIC 8

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	2016 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30 000 cyc	0/237
TC	JESD22-A104	Ta= -55°C to +150°C	2000 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/240
AC	JESD22-A102	121°C, 100% RH, 15 PSIG	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/957
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/45
PD	JESD22 B-100	Per POD		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
NSS40302PDR2G	NSV40302PDR2G
NSS40300MDR2G	NSV40302PDR2G
NSS40301MDR2G	NSV40302PDR2G
NSS40300DDR2G	NSV40302PDR2G