



Final Product/Process Change Notification

Document #:FPCN23819XB

Issue Date:15 Dec 2022

Title of Change:	Qualify mold compound EME-G770HM type D for XDFN devices assembled in onsemi Leshan facility.
Proposed First Ship date:	22 Mar 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Jim.Peng@onsemi.com
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 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:	Assembly Lot Number
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change
Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
onsemi Leshan, China	None

Description and Purpose:

Upon the expiration of this PCN, these devices will be built with existing or new mold compound at the same site. Datasheet specifications and product electrical performance remain unchanged. Reliability qualification and full electrical characterization over temperature was performed for qualification vehicle device.

Material to be change	Before Change Description	After Change Description
Mold Compound	EME-G770HCD Version M	EME-G770HCD Version M EME-G770HM type D

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



Final Product/Process Change Notification

Document #:FPCN23819XB

Issue Date:15 Dec 2022

Reliability Data Summary:

Qual Vehicle Device: NSVBASH21MX2WT5G

RMS: 77121, 84500

Package: X2DFN

Test	Specification	Condition	Interval	Results
HTRB	MILSTD750-1 method M1038A	Tj= 175°C, V=100% rated V	1008 hrs	0/231
HTSL	JESD22 A103	Temp.=175°C, no bias	2016 hrs	0/231
PC	JESD22 A113	MSL 1 @ 260 °C	Before TC, UHAST, HAST, IOL	0/924
HAST	JESD22 A110	130C/85%RH, 80% rated V or 100V max	192 hrs	0/231
TC	JESD22 A104	Ta= - 65°C to +150°C	1000 cycles	0/231
UHAST	JESD22 A118	Ta=130C, 85% RH, ~18.8 psig, no bias	96 hrs	0/231
IOL	MIL-STD-750 Method 1037	Ta=+25°C, delta Tj=100°C, On/off = 2 min	30000 cycles	0/231
RSH	JESD22 B106	Ta = 265C, 10 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
BASH21MX2WT5G	NSVBASH21MX2WT5G
BASH20MX2WT5G	NSVBASH21MX2WT5G
BASH19MX2WT5G	NSVBASH21MX2WT5G
BASH16MX2WT5G	NSVBASH21MX2WT5G