



Final Product/Process Change Notification

Document #:FPCN22647XBH

Issue Date:26 May 2022

Title of Change:	Mold Compound Change attributed to an End of Life of Samsung SDI EMC for TO247 in SHEDCL	
Proposed First Ship date:	01 Sep 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Bokyun.Seo@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 Lalan.Ortega@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:	No change of Marking of Parts / Traceability of Change	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	SHANTOU HUASHAN Electronic Devices Co., Ltd., China	
Description and Purpose:		
onsemi wishes to inform a change in mold compounds used for the devices listed in this PCN. This is the final product change notification (FPCN). This change is a result of an End of Life notification received from Samsung for several of their SDI Mold Compounds. Due to the discontinuance of the SDI mold compounds, onsemi will only have limited supplies of the existing material.		
	Before Change Description	After Change Description
Mold compound	SL7300HFM, Supplier: Samsung SDI	EME6600CS S4L, Supplier : SUMITOMO
There is no product marking change as a result of this change.		



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Reliability Data Summary:

QV DEVICE NAME: HGTG27N120BN

RMS: U60275, O62995, 77932

PACKAGE: TO247

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0 / 231
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs	0 / 231
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0 / 231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5.0 min	6000 Cyc	0 / 231
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0 / 231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0 / 231
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 5 sec		0/45
PD	JESD22-B100B	Per POD, case outline		0/30
SAT	J-STD-035	Delamination	0hr	0 / 25

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
HGTG40N60A4	HGTG27N120BN
HGTG20N60A4D	HGTG27N120BN
HGTG18N120BND	HGTG27N120BN
FGH50N3	HGTG27N120BN
FFH60UP60S3	HGTG27N120BN

Appendix A: Changed Products**PCN#: FPCN22647XBH**
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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
HGTG40N60A4		HGTG27N120BN	NA	
HGTG18N120BND		HGTG27N120BN	NA	
FFH60UP60S3		HGTG27N120BN	NA	
HGTG20N60A4D		HGTG27N120BN	NA	