



Initial Product/Process Change Notification

Document #: IPCN25004X

Issue Date: 10 Oct 2022

Title of Change:	Mold Compound change from EME6600CS S4L to KTMC1050GFA in SHEDCL
Proposed First Ship date:	31 Mar 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Huan.Tran@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.
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >
Marking of Parts/ Traceability of Change:	Identify by Lot code.
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 due to potential end of life of part EME6600CS S4L by end of 2023. There is no product marking change as a result of this change.

	From	To
Mold Compound	EME6600CS S4L, SUMITOMO	KTMC1050GFA, KCC



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Qualification Plan:

QV DEIVCE NAME FGH30N60LSDTU

RMS: U86642

PACKAGE: TO-247-3

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta= 150°C, 100% max rated V	1008 hrs
HTGB	JESD22-A108	Ta= 150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5 min	6000 cyc
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96 hrs
UHASt	JESD22-A118	110°C, 85% RH, 18.8psig, unbiased	264 hrs
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	End points

QV DEVICE NAME HGTG40N60A4

RMS: U80814, O81495, V81497, U85951

PACKAGE: TO-247-3

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta= 150°C, 100% max rated V	1008 hrs
HTGB	JESD22-A108	Ta= 150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5 min	6000 cyc
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
H3TRB	JESD22-A110	Temp = 85°C, RH=85%, bias = 80% of rated V or 100V max	1008 hrs
UHASt	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	End points

Estimated date for qualification completion: 19 December 2022



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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	HGTG40N60A4
HGTG20N60A4D	HGTG40N60A3
FGH50N3	FGH30N60LSDTU
FGH40N60SFDTU	FGH30N60LSDTU
FGH30N60LSDTU	FGH30N60LSDTU
FGH20N60SFDTU	FGH30N60LSDTU
FFH60UP60S3	FGH30N60LSDTU

Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
HGTG40N60A4		HGTG40N60A4		
FGH50N3		FGH30N60LSDTU		
FGH40N60SFDTU		FGH30N60LSDTU		
FGH30N60LSDTU		FGH30N60LSDTU		
FGH20N60SFDTU		FGH30N60LSDTU		
FFH60UP60S3		FGH30N60LSDTU		
HGTG20N60A4D		HGTG40N60A3		