



Final Product/Process Change Notification

Document #:FPCN26234Z

Issue Date:13 Aug 2024

Title of Change:	Qualification of alternate mold compound GR710F at onsemi Suzhou, China to avoid supply disruption of Sumitomo EME 6600CS.
Proposed Changed Material First Ship Date:	20 Feb 2025 or earlier if approved by customer
Current Material Last Order Date:	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>
Current Material Last Delivery Date:	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
Product Category:	Active components – Discrete components
Contact information:	Contact your local onsemi Sales Office or Yun.Cui@onsemi.com , HuaBin.Cui@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Sample Availability Date:	31 Aug 2024
PPAP Availability Date:	31 Aug 2024
Additional Reliability Data:	Contact your local onsemi Sales Office or Jutta.Xu@onsemi.com
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com .

Change Category

Category	Type of Change
Process - Assembly	Change of mold compound

Description and Purpose:

This FPCN is to inform customers that onsemi is qualifying new green mold compound GR710F from China local supplier Hysol, as alternative source on selected Discrete products in onsemi Suzhou, China, to avoid supply disruption risk of Sumitomo non-green mold compound EME 6600CS.

	Before Change Description	After Change Description
Mold Compound	EME 6600CS	EME 6600CS GR710F

All other aspects of the impacted products (form, fit, function) will remain unchanged.

There is no product marking change because of this change.

There are no changes in product electrical specifications.



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Reason / Motivation for Change:	Process/Materials Change			
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.			
Sites Affected:				
onsemi Sites			External Foundry/Subcon Sites	
onsemi Suzhou, China			None	
Marking of Parts/ Traceability of Change:	Changed material will be identified by lot code			
Reliability Data Summary:				
QV DEVICE NAME: FQD6N40CTM-NBEA002				
PACKAGE: DPAK				
RMS: U87358				
Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008hrs	0/231
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre IOL, TC, uHAST, HAST for surface mount pkgs only		0/924
TC+PC	JESD22-A104	Ta= -55°C to +150°C	1000cycs	0/231
HAST+PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/231
UHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231
IOL+PC	MIL STD750, M 1037	Ta=+25°C, delta Tj=100°C max, Ton=Toff=2min	15000cycs	0/231
SD	JSTD002	Ta = 245°C, 5 sec		0/45
NOTE: AEC-1pager is attached.				
<i>To view attachments:</i> 1. Download pdf copy of the PCN to your computer 2. Open the downloaded pdf copy of the PCN 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field 4. Then click on the attached file.				
Electrical Characteristics Summary:				
Electrical characteristics are not impacted.				



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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**.

Current Part Number	New Part Number	Qualification Vehicle
FQD8P10TM-F085	#NONE	FQD6N40CTM-NBEA002
FDD13AN06A0-F085	#NONE	FQD6N40CTM-NBEA002