



Final Product/Process Change Notification

Document #:FPCN24856XA

Issue Date:23 Dec 2024

Title of Change:	Qualification of mold compound second source GR710F at onsemi Suzhou, China for DPAK devices	
Proposed First Ship date:	31 Mar 2025 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	
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:	Keep same marking. Changed material will be identified by lot code.	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Suzhou, China	None	
Description and Purpose:		
<p>This FPCN is to inform customers that onsemi has qualified new green mold compound GR710F from China local supplier Hysol, as alternative source on selected DPAK Discrete products in onsemi Suzhou, China.</p> <p>This will help improve supply chain flexibility.</p>		
	Before Change Description	After Change Description
Mold Compound	KTMC5900GM	KTMC5900GM & GR710F
<p>All other aspects of the impacted products (form, fit, function) will remain unchanged.</p> <p>There is no product marking change because of this change.</p> <p>There are no changes in product electrical specifications.</p>		



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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

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
FDD86367	FQD6N40CTM-NBEA002
FDD86369	FQD6N40CTM-NBEA002