

Title of Change:	Qualification of mold compound second source GR710F at onsemi Suzhou, China for D2PAK devices	
Proposed Changed Material First Ship Date:	29 Oct 2025 or earlier if approved by customer	
Current Material Last Order Date:	N/A Orders received after the Current Material Last Order Date expiration are to be considered or 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 inventor availability.	
Current Material Last Delivery Date:	N/A The Current Material Last Delivery Date may be subject to change based on build and deplet of the current (unchanged) material inventory	
Product Category:	Active components – Discrete components	
Contact information:	Contact your local onsemi Sales Office	
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 Mar 2025	
PPAP Availability Date:	31 May 2025	
Additional Reliability Data:	Contact your local onsemi Sales Office	
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	SEM-PA-11: Change of mold compound / encapsulation material	

Description and Purpose:

This FPCN is to inform customers that onsemi has qualified a new green mold compound, GR710F, from the China supplier Hysol, as a second source for selected D2PAK Discrete products in onsemi Suzhou, China.

This will help improve supply chain flexibility.

	Before Change Description	After Change Description
Mold Compound	CEL8240HF10FC	CEL8240HF10FC & 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.



Reason / Motivation for Change: Anticipated impact on fit, form, function, reliability, product safety or manufacturability:		Process/Materials Change 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/ 1 Change:	Traceability of Keep same marking. Changed		marking. Changed	material will be identified by lot code.		
Reliability Data Sur	-	I				
Reliability Data Sur QV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433	VB082N65S3F					
Reliability Data Sur QV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433 Test	VB082N65S3F Specificat			Condition	Interval	Results
Reliability Data Sur DV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433 Test HTRB	VB082N65S3F Specificat JESD22-A1	108		Tj=150°C, 100% max rated V	1008hrs	0/231
Reliability Data Sur QV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433 Test HTRB HTGB	VB082N65S3F Specificat JESD22-A1 JESD22-A1	108 108		Tj=150°C, 100% max rated V =150°C, 100% max rated Vgss	1008hrs 1008hrs	0/231 0/231
Reliability Data Sur OV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433 Test HTRB	VB082N65S3F Specificat JESD22-A1 JESD22-A1 JESD22-A1	108 108 103	Tj	Tj=150°C, 100% max rated V =150°C, 100% max rated Vgss Ta= 150°C	1008hrs	0/231
Reliability Data Sur QV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433 Test HTRB HTGB	VB082N65S3F Specificat JESD22-A1 JESD22-A1 JESD22-A1 J-STD-02	108 108 103 20	Tj	Tj=150°C, 100% max rated V =150°C, 100% max rated Vgss Ta= 150°C 1 @ 245 °C, Pre IOL, TC, uHAST,	1008hrs 1008hrs	0/231 0/231
Reliability Data Sur QV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433 Test HTRB HTRB HTGB HTSL	VB082N65S3F Specificat JESD22-A1 JESD22-A1 JESD22-A1	108 108 103 20 13	Tj	Tj=150°C, 100% max rated V =150°C, 100% max rated Vgss Ta= 150°C	1008hrs 1008hrs	0/231 0/231 0/231
Reliability Data Sur QV DEVICE NAME: NV PACKAGE: D2PAK RMS: U86433 Test HTRB HTRB HTGB HTSL Preconditioning	VB082N65S3F JESD22-A1 JESD22-A1 JESD22-A1 J-STD-02 JESD-A11	108 108 103 20 13 104	Tj MSL HA	Tj=150°C, 100% max rated V =150°C, 100% max rated Vgss Ta= 150°C 1 @ 245 °C, Pre IOL, TC, uHAST, ST for surface mount pkgs only	1008hrs 1008hrs 1008hrs	0/231 0/231 0/231 0/924
Reliability Data Sur QV DEVICE NAME: NY PACKAGE: D2PAK RMS: U86433 Test HTRB HTRB HTGB HTSL Preconditioning TC+PC	VB082N65S3F Specificat JESD22-A1 JESD22-A1 JESD22-A1 J-STD-02 JESD-A11 JESD22-A1	108 108 103 20 13 104 110	Tj MSL HA 1	Tj=150°C, 100% max rated V =150°C, 100% max rated Vgss Ta= 150°C 1 @ 245 °C, Pre IOL, TC, uHAST, ST for surface mount pkgs only Ta= -55°C to +150°C	1008hrs 1008hrs 1008hrs 1008hrs 1000cycs	0/231 0/231 0/231 0/924 0/231
Reliability Data Sur QV DEVICE NAME: NV PACKAGE: D2PAK RMS: U86433 Test HTRB HTGB HTGB HTGB HTSL Preconditioning TC+PC HAST+PC	VB082N65S3F Specificat JESD22-A1 JESD22-A1 JESD22-A1 JSD-A11 JESD22-A1 JESD22-A1	108 108 103 20 13 104 110 118	Tj MSL HA 1 130	Tj=150°C, 100% max rated V =150°C, 100% max rated Vgss Ta= 150°C 1 @ 245 °C, Pre IOL, TC, uHAST, ST for surface mount pkgs only Ta= -55°C to +150°C 130°C, 85% RH, 18.8psig, bias	1008hrs 1008hrs 1008hrs 1008hrs 1000cycs 96hrs	0/231 0/231 0/231 0/924 0/231 0/231

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.

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
NVB099N65S3	#NONE	NVB082N65S3F



NVB260N65S3	#NONE	NVB082N65S3F
NVB125N65S3	#NONE	NVB082N65S3F
NVB095N65S3F	#NONE	NVB082N65S3F