



Title of Change:	Qualification of Sumitomo mold compound from G700HC to G700HF for DPAK at Seremban.								
Proposed first ship date:	24 October 2017 <i>or earlier after customer approval.</i>								
Contact information:	Contact your local ON Semiconductor Sales Office <AhmadFaris.Dzulkipli@onsemi.com>								
Samples:	Contact your local ON Semiconductor Sales Office <AhmadFaris.Dzulkipli@onsemi.com>, <nurul aqilah.abu hurairah@onsemi.com>								
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <cheanching.sim@onsemi.com>								
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 12 months prior to implementation of the change or earlier upon customer approval. ON Semiconductor will consider this proposed change and its conditions acceptable, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <PCN.Support@onsemi.com>.								
Change Part Identification:	Affected parts will be identified with a date code of WW42'17 or later								
Change category:	☐ Wafer Fab Change ☒ Assembly Change ☐ Test Change ☐ Other _____								
Change Sub-Category(s):	☐ Manufacturing Site Change/Addition ☒ Material Change ☐ Datasheet/Product Doc change ☐ Manufacturing Process Change ☐ Product specific change ☐ Shipping/Packaging/Marking ☐ Other: _____								
Sites Affected:	☐ All site(s) ☐ not applicable ☒ ON Semiconductor site(s) : Select site ON Seremban, Malaysia ☐ External Foundry/Subcon site(s) _____								
Description and Purpose:									
This is a Final Change Notification announces the change in mold compound on selected devices in DPAK package from Sumitomo G700HC to G700HF. This change is to improve delamination at post area.									
<table border="1"> <thead> <tr> <th>Material to be changed</th> <th>Before Change</th> <th>After Change</th> </tr> </thead> <tbody> <tr> <td>Mold compound</td> <td>G700HC</td> <td>G700HF</td> </tr> </tbody> </table>				Material to be changed	Before Change	After Change	Mold compound	G700HC	G700HF
Material to be changed	Before Change	After Change							
Mold compound	G700HC	G700HF							

**Reliability Data Summary:**

QV Device Name - NTDV20N06T4G, NVD5490NLT4G, NVD5117PLT4G, NVD6824NLT4G

Package : DPAK

#	Test	Name	Test Condition	Read points	NTDV20N06T4G	NVD5490NLT4G	NVD5117PLT4G	NVD6824NLT4G
1	AC-PC	Autoclave + PC	121°C/100% RH/15psig	96 Hrs	NA	0/84	0/84	0/84
2	TC-PC	Temperature Cycling + PC	Ta = -55/150° C	1000 Cyc	0/84	0/84	0/84	0/84
3	UHASt-PC	Unbias High Accelerated Stress Test + PC	121°C/100% RH/15psig	96 Hrs	0/84	NA	NA	NA
4	HAST-PC	Highly Accelerated Stress Test + PC	Ta= +130° C, RH = 85%, PSIG= 18.8,	96 Hrs	NA	NA	0/84	NA
5	H3TRB – PC	High Humidity High Temp Rev Bias + Preconditioning	Ta=85°C, 85% RH, 80% rated or 100V max	1008 Hrs	0/84	0/84	NA	0/84
6	IOL-PC	Intermittent Operating Life + PC	Ta=+25°C, delta Tj=100°C	15000 Cyc	0/84	0/84	0/84	0/84
7	HTRB	High Temp Reverse Bias	TA = 175°C	1008 Hrs	0/84	0/84	0/84	0/84
8	HTGB	High Temp Gate Bias	TA = 175°C	1008 Hrs	0/84	0/84	0/84	0/84
9	HTSL	High Temperature Storage Life	Ta = 175° C	1008 Hrs	0/84	0/84	0/84	0/84
10	RSH	Resistance to Solder Heat	260 C Immersion	Result	0/30	0/30	0/30	0/30

Note: AEC-1pager is attached.

To access file attachments on pdf copy of PCN, please be guided by the steps below:

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/s

Electrical Characteristic Summary:

Electrical characteristics are not impacted.

**List of Affected Standard Parts:**

Part Number	Qualification Vehicle
NTDV20N06T4G	NTDV20N06T4G
NVD3055-150T4G	
NVD4856NT4G	NVD6824NLT4G
NVD5484NLT4G	
NVD5805NT4G	
NVD5890NLT4G	
NVD5490NLT4G	NVD5490NLT4G

List of Affected Customer Specific Parts:

NOTE: Please be informed that parts impacted by this PDN/PCN are Special/Customer specific parts, thus MPN & CPN info will be available to affected customers only by clicking the "Custom PCN for Selected Company Button" in the Document Analysis page of PCMS/PCN Alert.