



Title of Change:	Qualification of Power Schottky Back Metal Change For Powermite Package.								
Proposed first ship date:	13 November 2017								
Contact information:	Contact your local ON Semiconductor Sales Office or <SitiNurhaza.MohdRamli@onsemi.com>								
Samples:	Contact your local ON Semiconductor Sales Office								
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 12months 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:	There will be no change in the device marking scheme. Clean date code will be advised as requested.								
Change category:	☒ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other _____								
Change Sub-Category(s):	☐ Manufacturing Site Change/Addition ☐ Manufacturing Process Change ☒ Material Change ☐ Product specific change ☐ Datasheet/Product Doc change ☐ Shipping/Packaging/Marking ☐ Other: _____								
Sites Affected:	☒ All site(s) ☐ not applicable ☐ ON Semiconductor site(s) : ☐ External Foundry/Subcon site(s)								
Description and Purpose:									
This is a Final Product Change Notification announcing to customers that ON Semiconductor is qualifying Power Schottky back metal change on selected automotive qualified Orderable Part Numbers (OPNs) listed in this FPCN. <table border="1" style="margin: 10px auto; width: 60%;"> <thead> <tr> <th></th> <th style="background-color: #92d050;">Change From</th> <th style="background-color: #92d050;">Change To</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Back Metal</td> <td style="text-align: center;">Cr/Ni/Au</td> <td style="text-align: center;">Ti/Ni/Ag</td> </tr> </tbody> </table> The change will affect Powermite package at its assembly site. Products had gone thru reliability testing as per automotive requirements and it's proven that device performances are not affected					Change From	Change To	Back Metal	Cr/Ni/Au	Ti/Ni/Ag
	Change From	Change To							
Back Metal	Cr/Ni/Au	Ti/Ni/Ag							

**Reliability Data Summary:****NRVBM120LT1G**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=90°C, 100% max rated V	1000 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/240
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc	0/240
H3TRB	JESD22 A101	Ta=85°C RH=85% bias=80% rated V or 100V Max	1000 hrs	0/240
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%, 96 Hours	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/960
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

Note: AEC-1 pager 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:

There are no changes in electrical characteristic; product performance meets data sheet specifications. Characterization data is available upon request.

**List of Affected Standard Parts:**

Part Number	Qualification Vehicle
NRVB120LSFT1G	NRVBM120LT1G
NRVB120VLSFT1G	NRVBM120LT1G
NRVB130LSFT1G	NRVBM120LT1G
NRVB230LSFT1G	NRVBM120LT1G
NRVBM110LT1G	NRVBM120LT1G
NRVBM110LT3G	NRVBM120LT1G
NRVBM120LT1G	NRVBM120LT1G
NRVBM120LT3G	NRVBM120LT1G
NRVBM130LT1G	NRVBM120LT1G
NRVBM130LT3G	NRVBM120LT1G