



Title of Change:	Qualify ON Semiconductor Vietnam (OSV) as an additional Automotive site for Assembly/Test of specified products in SMB package.
Proposed first ship date:	15 May 2017 <i>or earlier upon customer approval</i>
Contact information:	Contact your local ON Semiconductor Sales Office or <Phuong.Hoang@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. This FPCN is being issued 6 months prior to implementation because this change provides an alternate source to an ON manufacturing facility utilizing the same BOM. 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:	Products from OSV will carry site code "VN" at the bottom of the package.
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) : ON Dong Nai Province, Vietnam ON Seremban, Malaysia ☐ External Foundry/Subcon site(s) _____
Description and Purpose: This Final Notification announces the plan to qualify ON Semiconductor Vietnam (OSV) as an additional Assembly and Test site for operations of Automotive discrete SMB packaged products. Upon the expiration of this FPCN, new OSV part numbers will be available to allow specified products to be sourced from either the Seremban or Vietnam locations using the same Bill of Material. ON Semiconductor Vietnam (OSV) is qualified site for SMB Standard discrete packaged products and is ISO TS16949 certified. Products sourced from OSV have been qualified to Automotive requirements and continue remain as Pb-free, Halide free and RoHS compliant. <u>Change benefits:</u> Rapid utilization of availability capacity. <u>Risk for late release:</u> Limited capacity.	

**Reliability Data Summary:****QV DEVICE NAME: MURS360BT3G (Ultrafast Rectifier)****PACKAGE: SMB**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 150 °C, Tj(est) = 175° C, bias = 80% of rated V	1008 hrs	0/252
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/252
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	15000 cyc	0/252
TC	JESD22-A104	Temp = -65°C to +150°C	1000 cyc	0/252
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
H3TRB	JESD22-A101	Temp = 85°C, RH=85%, bias = 100V max	1008 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/1008
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

QV DEVICE NAME: P6SMB200AT3G (Zener)**PACKAGE: SMB**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 150 °C, bias = 80% of rated V	1008 hrs	0/252
HTSL	JESD22-A103	Ta = 150 °C	1008 hrs	0/252
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	15000 cyc	0/252
TC	JESD22-A104	Temp = -65°C to +150°C	1000 cyc	0/252
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
H3TRB	JESD22-A101	Temp = 85°C, RH=85%, bias = 100V max	1008 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/1008
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

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 Parts:

Current SBN Part Number	New OSV part number	Qualification Vehicle
SURS8110T3G	NRVUS110VT3G	MURS360BT3G
NRVUS230T3G	NRVUS230VT3G	
SURS8120T3G	NRVUS120VT3G	
NRVUS240T3G	NRVUS240VT3G	
SURS360DBT3G	NRVUS360VDBT3G	
SURS8220T3G	NRVUS220VT3G	
SURHS8160T3G	NRVUHS160VT3G	
SURS8160T3G	NRVUS160VT3G	
SURS8360BT3G	NRVUS360VBT3G	
SZ1SMB5934BT3G	SZ1SMB5934BT3G-VF01	P6SMB200AT3G
SZ1SMB5917BT3G	SZ1SMB5917BT3G-VF01	
SZ1SMB5915BT3G	SZ1SMB5915BT3G-VF01	
SZ1SMB5935BT3G	SZ1SMB5935BT3G-VF01	
SZ1SMB5931BT3G	SZ1SMB5931BT3G-VF01	
SZ1SMB5938BT3G	SZ1SMB5938BT3G-VF01	