



Title of Change:	Qualify ON Semiconductor Vietnam (OSV) as additional Assembly and Test location of Trench Schottky products in SMA and SMB packages.	
Proposed first ship date:	15 March 2019	
Contact information:	Contact your local ON Semiconductor Sales Office or <Phuong.Hoang@onsemi.com>	
Samples:	Contact your local ON Semiconductor Sales Office or <PCN.samples@onsemi.com> 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.	
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 90 days prior to implementation of the change. ON Semiconductor 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>	
Change Part Identification:	Product from ON Semiconductor Vietnam (OSV) will be marked with site code "VN" prior to the date code while the Seremban device does not have site code marking.	
Change Category:	☐ Wafer Fab Change ☒ Assembly Change ☒ Test Change ☐ Other _____	
Change Sub-Category(s):	☒ Manufacturing Site Addition ☐ Material Change ☐ Datasheet/Product Doc change ☐ Manufacturing Site Transfer ☐ Product specific change ☒ Shipping/Packaging/Marking ☐ Manufacturing Process Change ☐ Other: _____	
Sites Affected:	ON Semiconductor Sites: ON Dong Nai Province, Vietnam	External Foundry/Subcon Sites: None
Description and Purpose: This Final Notification announces the planned capacity expansion of ON Semiconductor's assembly and test operations of Trench Schottky products in SMA & SMB packages to ON Semiconductor Vietnam (OSV). The Trench Schottky products in SMA & SMB packages are currently being assembled and tested at Seremban. Upon the expiration of this FPCN, Trench Schottky products can be processed at OSV location using same Bill of Material. ON Semiconductor Vietnam (OSV) is qualified site for SMA and SMB Standard discrete packaged products and is ISO TS16949 certified. Products sourced from OSV have been qualified to Industrial requirements and continue remain as Pb-free, Halide free and RoHS compliant.		

**Reliability Data Summary:****QV DEVICE NAME: NRV TSA4100ET3G (Trench Schottky)****PACKAGE: SMA**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 90 °C, bias = 100% of rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	15000 cyc	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/231
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/231
H3TRB	JESD22-A101	Ta = 85°C, RH = 85%, bias = 80% of rated V	1008 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

QV DEVICE NAME: NRV TSS5100ET3G (Trench Schottky)**PACKAGE: SMB**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 90 °C, bias = 100% of rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	15000 cyc	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/231
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/231
H3TRB	JESD22-A101	Ta = 85°C, RH=85%, bias = 80% of rated V	1008 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90

Electrical Characteristic Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Part Number	Qualification Vehicle
NTSA4100T3G	NRV TSA4100ET3G
NTSS3100T3G	NRV TSS5100ET3G
NTSS5100T3G	NRV TSS5100ET3G