



Title of Change:	Qualify ON Semiconductor Vietnam (OSV) as an additional Automotive site for Assembly/Test of NVD5803NT4G product.
Proposed first ship date:	2 March 2017 or <i>earlier upon customer approval</i>
Contact information:	Contact your local ON Semiconductor Sales Office or <Gk.Sua@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:	<p>This FPCN is being issued 6 months prior to implementation because this change provides an alternate source to an ON manufacturing facility, from an ON manufacturing facility utilizing the same BOM.</p> <p>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>.</p>
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:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input checked="" type="checkbox"/> Test Change <input type="checkbox"/> Other _____
Change Sub-Category(s):	<input checked="" type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change <input checked="" type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____
Sites Affected:	<input type="checkbox"/> All site(s) <input type="checkbox"/> not applicable <input checked="" type="checkbox"/> ON Semiconductor site(s) : ON Dong Nai Province, Vietnam ON Seremban, Malaysia <input type="checkbox"/> External Foundry/Subcon site(s) _____
Description and Purpose:	<p>This Final Notification announces the plan to qualify ON Semiconductor Vietnam (OSV) as an additional Assembly and Test site for operations of Automotive discrete DPAK packaged products.</p> <p>Upon the expiration of this FPCN, new OSV part number will be available to allow NVD5803NT4G product to be sourced from either the Seremban or Vietnam locations using the same Bill of Material.</p> <p>ON Semiconductor Vietnam (OSV) is qualified site for DPAK Standard discrete packaged products and is ISO TS16949 certified.</p> <p>Product sourced from OSV has been qualified to Automotive requirements and continues remain as Pb-free, Halide free and RoHS compliant.</p> <p>Change benefits: Rapid utilization of availability capacity.</p> <p>Risk for late release: Limited capacity.</p>



Reliability Data Summary:

QV DEVICE NAME: NVD5862NT4G (Mosfet)

PACKAGE: DPAK

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 175 °C, bias = 100% of rated V	1008 hrs	0/84
HTGB	JESD22-A108	Ta = 175 °C, 100% max rated Vgss	1008 hrs	0/84
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/84
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	15000 cyc	0/84
TC	JESD22-A104	Temp = -55°C to +150°C	1000 cyc	0/84
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/84
H3TRB	JESD22-A101	Temp = 85°C, RH=85%, bias = 100V max	1008 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/336
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15

QV DEVICE NAME: NVD5117PLT4G (Mosfet)

PACKAGE: DPAK

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 175 °C, bias = 100% of rated V	1008 hrs	0/84
HTGB	JESD22-A108	Ta = 175 °C, 100% max rated Vgss	1008 hrs	0/84
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/84
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	15000 cyc	0/84
TC	JESD22-A104	Temp = -55°C to +150°C	1000 cyc	0/84
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/84
H3TRB	JESD22-A101	Temp = 85°C, RH=85%, bias = 100V max	1008 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/336
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15



QV DEVICE NAME: STD110N02RT4G (Mosfet)

PACKAGE: DPAK

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 175 °C, bias = 100% of rated V	1008 hrs	0/84
HTGB	JESD22-A108	Ta = 175 °C, 100% max rated Vgss	1008 hrs	0/84
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/84
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	15000 cyc	0/84
TC	JESD22-A104	Temp = -55°C to +150°C	1000 cyc	0/84
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/84
H3TRB	JESD22-A101	Temp = 85°C, RH=85%, bias = 100V max	1008 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/336
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15

NOTE: AEC-1 pagers 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
NVD5803NT4G	SVD5803NT4G	NVD5862NT4G/NVD5117PLT4G/STD110N02RT4G