



Title of Change:	Qualify ON Semiconductor Vietnam (OSV) as an additional location for Assembly/Test of products in SMC package.
Proposed first ship date:	16 November 2017
Contact information:	Contact your local ON Semiconductor Sales Office or <Phuong.Hoang@onsemi.com>
Samples:	Contact your local ON Semiconductor Sales Office or <Phuong.Hoang@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 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:	<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 <input type="checkbox"/> External Foundry/Subcon site(s)
Description and Purpose:	<p>This FPCN announces the planned capacity expansion of ON Semiconductor's assembly and test operations of SMC discrete packaged products to ON Semiconductor Vietnam (OSV).</p> <p>The Ultrafast and CCR products are currently being assembled and tested at Seremban. Upon the expiration of this FPCN, Ultrafast and CCR products in SMC package can be processed at OSV location using same Bill of Material.</p> <p>ON Semiconductor Vietnam (OSV) is qualified site for SMC Standard discrete packaged products. Products sourced from OSV have been qualified to Consumer requirements and continue remain as Pb-free, Halide free and RoHS compliant.</p>

**Reliability Data Summary:****QV DEVICE NAME:** SURS8360T3G (Ultrafast Rectifier)**PACKAGE:** SMC

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 150 °C, Tj(est) = 175 °C, bias = 100% 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: NSV50350AST3G (CCR)**PACKAGE:** SMC

Test	Specification	Condition	Interval	Result
HTOL	JESD22-A108	Ta = 125°C, Tj(est) = 175°C, 100 % max rated Vcc	1008 hrs	0/252
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	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
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/504
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

Electrical Characteristic Summary:

Electrical characteristics are not impacted.



List of Affected Standard Parts:	
Part Number	Qualification Vehicle
MURS320T3G	SURS8360T3G
MURS320T3H	
MURS340T3G	
MURS360T3G	
MURS360T3H	
MURS480ET3G	
NSI50350AST3G	NSV50350AST3G