



Title of Change:	Qualification of ON Semiconductor Vietnam (OSV) for the Assembly and Test of the listed SCR products in DPAK package.			
Proposed first ship date:	22 May 2016			
Contact information:	Contact your local ON Semiconductor Sales Office or <Gk.Sua@onsemi.com>			
Samples:	Contact your local ON Semiconductor Sales Office or <Dong.Ta@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 or earlier upon customer approval. 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:	Products from ON Semiconductor Vietnam (OSV) will be marked with site code "VN" prior to date code.			
Change category:	☐ Wafer Fab Change ☒ Assembly Change ☒ Test Change ☐ Other _____			
Change Sub-Category(s):	☒ Manufacturing Site Change/Addition ☐ Material Change ☐ Datasheet/Product Doc change ☐ Manufacturing Process Change ☐ Product specific 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 is an updated notification of FPCN 20386 issued on 20th Feb, 2014 to include additional SCR devices. This FPCN announces the planned capacity expansion of ON Semiconductor's assembly and test operations of DPAK discrete packaged products, currently built at ON Semiconductor Seremban, Malaysia facility to ON Semiconductor Vietnam (OSV). Upon the expiration of this FPCN, SCR devices may be processed at either location. These products have been qualified to commodity/commercial requirements. These products will continue being Pb-free, Halide free and RoHS compliant.				
Reliability Data Summary:				
QV DEVICE NAME: MCR12DSNT4G				
PACKAGE: DPAK				
Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 90°C, 80% max rated V	1008 hrs	0/84
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/84
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta= +25°C, delta Tj= 100°C On/off = 2min	15000 cyc	0/84
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/84
H3TRB	JESD22-A101	85°C, 85% RH, 18.8psig, bias	1008 hrs	0/84
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 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

**Electrical Characteristic Summary:**

Electrical characteristics are not impacted.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
MCR12DCMT4G	MCR12DSNT4G
MCR8DCNT4G	MCR12DSNT4G
MCR8DSNT4G	MCR12DSNT4G