



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:	<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 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 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).</p> <p>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.</p>																																																					
Reliability Data Summary:	<p>QV DEVICE NAME: MCR12DSNT4G PACKAGE: DPAK</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Specification</th> <th>Condition</th> <th>Interval</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>HTRB</td> <td>JESD22-A108</td> <td>Ta= 90°C, 80% max rated V</td> <td>1008 hrs</td> <td>0/84</td> </tr> <tr> <td>HTSL</td> <td>JESD22-A103</td> <td>Ta= 150°C</td> <td>1008 hrs</td> <td>0/84</td> </tr> <tr> <td>IOL</td> <td>MIL-STD-750 (M1037) AEC-Q101</td> <td>Ta= +25°C, delta Tj= 100°C On/off = 2min</td> <td>15000 cyc</td> <td>0/84</td> </tr> <tr> <td>TC</td> <td>JESD22-A104</td> <td>Ta= -65°C to +150°C</td> <td>1000 cyc</td> <td>0/84</td> </tr> <tr> <td>H3TRB</td> <td>JESD22-A101</td> <td>85°C, 85% RH, 18.8psig, bias</td> <td>1008 hrs</td> <td>0/84</td> </tr> <tr> <td>AC</td> <td>JESD22-A102</td> <td>121°C, 100% RH, 15psig, unbiased</td> <td>96 hrs</td> <td>0/84</td> </tr> <tr> <td>PC</td> <td>J-STD-020 JESD-A113</td> <td>MSL 1 @ 260°C</td> <td></td> <td>0/336</td> </tr> <tr> <td>RSH</td> <td>JESD22- B106</td> <td>Ta= 265°C, 10 sec</td> <td></td> <td>0/30</td> </tr> <tr> <td>SD</td> <td>JSTD002</td> <td>Ta= 245°C, 10 sec</td> <td></td> <td>0/15</td> </tr> </tbody> </table>				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
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Electrical Characteristic Summary:

Electrical characteristics are not impacted.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
MCR12DCMT4G	MCR12DSNT4G
MCR8DCNT4G	MCR12DSNT4G
MCR8DSNT4G	MCR12DSNT4G