



Title of Change:	Qualification of ON Semiconductor Vietnam (OSV) for Assembly and Test of Zener bidirectional in SMB package
Proposed first ship date:	13 October 2015 or <i>Earlier upon customer approval</i>
Contact information:	Contact your local ON Semiconductor Sales Office or <Syahrul.SamsuddinA.Rahim@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:	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:	Devices sourced from ON Semiconductor Vietnam (OSV) will carry the site code "VN" at the bottom of the package
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 type="checkbox"/> Datasheet/Product Doc change
<input checked="" type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Material Change	<input type="checkbox"/> Shipping/Packaging/Marking
<input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change	<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)
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Description and Purpose:
 This FPCN announces the planned capacity expansion of ON Semiconductor’s assembly and test operations of SMB Zener bidirectional products, currently built at ON Semiconductor Malaysia facility to ON Semiconductor Vietnam (OSV). Currently ON Semiconductor Vietnam (OSV) is qualified site for SMB Zener unidirectional products.
 Upon the expiration of this FPCN, Zener bidirectional products may be processed at either location. These products have been qualified to industrial requirements. These products will continue being Pb-free, Halide free and RoHS compliant.

Reliability Data Summary:
 1SMB75CAT3G

Test	Conditions	Interval	Result
Autoclave	Ta =121°C, RH=100%, Pressure=15Psi	96hrs	0/252
HAST	Ta=130°C, 85% RH, Pressure=18.8Psi	96hrs	0/252
HTRB	Ta=150°C, Tj Max=150°C, Tj=150°C	1008hrs	0/252
HTSL	Ta=150°C	1008hrs	0/252
IOL	Ta=25°C, delta Tj=100°C On/off = 2 min	15000cyc	0/252
RSH	260°C Immersion		0/90
Solderability	Steam Aging=8hrs	8hrs	0/45
TC	Ta=-65/150° C	1000cyc	0/252

Electrical Characteristic Summary:
 Electrical characteristics are not impacted



List of Affected Standard Parts:

Part Number	Qualification Vehicle
1SMB10CAT3G	1SMB75CAT3G
1SMB11CAT3G	1SMB75CAT3G
1SMB12CAT3G	1SMB75CAT3G
1SMB13CAT3G	1SMB75CAT3G
1SMB14CAT3G	1SMB75CAT3G
1SMB15CAT3G	1SMB75CAT3G
1SMB16CAT3G	1SMB75CAT3G
1SMB17CAT3G	1SMB75CAT3G
1SMB18CAT3G	1SMB75CAT3G
1SMB20CAT3G	1SMB75CAT3G
1SMB22CAT3G	1SMB75CAT3G
1SMB24CAT3G	1SMB75CAT3G
1SMB26CAT3G	1SMB75CAT3G
1SMB28CAT3G	1SMB75CAT3G
1SMB30CAT3G	1SMB75CAT3G
1SMB33CAT3G	1SMB75CAT3G
1SMB36CAT3G	1SMB75CAT3G
1SMB40CAT3G	1SMB75CAT3G
1SMB43CAT3G	1SMB75CAT3G
1SMB45CAT3G	1SMB75CAT3G
1SMB48CAT3G	1SMB75CAT3G
1SMB51CAT3G	1SMB75CAT3G
1SMB54CAT3G	1SMB75CAT3G
1SMB58CAT3G	1SMB75CAT3G
1SMB60CAT3G	1SMB75CAT3G
1SMB64CAT3G	1SMB75CAT3G
1SMB75CAT3G	1SMB75CAT3G
P6SMB11CAT3G	1SMB75CAT3G
P6SMB12CAT3G	1SMB75CAT3G
P6SMB15CAT3G	1SMB75CAT3G
P6SMB16CAT3G	1SMB75CAT3G
P6SMB18CAT3G	1SMB75CAT3G
P6SMB20CAT3G	1SMB75CAT3G
P6SMB22CAT3G	1SMB75CAT3G
P6SMB24CAT3G	1SMB75CAT3G



P6SMB27CAT3G	1SMB75CAT3G
P6SMB30CAT3G	1SMB75CAT3G
P6SMB33CAT3G	1SMB75CAT3G
P6SMB36CAT3G	1SMB75CAT3G
P6SMB39CAT3G	1SMB75CAT3G
P6SMB43CAT3G	1SMB75CAT3G
P6SMB47CAT3G	1SMB75CAT3G
P6SMB51CAT3G	1SMB75CAT3G
P6SMB56CAT3G	1SMB75CAT3G
P6SMB62CAT3G	1SMB75CAT3G
P6SMB68CAT3G	1SMB75CAT3G
P6SMB82CAT3G	1SMB75CAT3G