

Final Product/Process Change Notification

Document # : FPCN22325X Issue Date: 12 June 2018

Title of Change:	Qualification of Flat Bottom Dimple Clip for Schottky Rectifier of SMA and SMB packages.		
Proposed first ship date:	19 September 2018		
Contact information:	Contact your local ON Semiconductor Sales Office or < MohdNazirul.MohdRadzuan@onsemi.com >		
Samples:	Contact your local ON Semiconductor Sales Office or < MohdNazirul. MohdRadzuan@onsemi.com >		
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or < MohdAzizi.Azman@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>.</pcn.support@onsemi.com>		
Change Part Identification:	There will be no change in the device marking scheme. Affected products will be identified with date code. Clean date code will be advised as requested.		
Change category:	☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other		
Change Sub-Category(s): Manufacturing Site Change Manufacturing Process Cha	3 Shipping/ Packaging/ Warking		
Sites Affected:	ON Semiconductor Sites: ON Seremban, Malaysia ON Dong Nai Province, Vietnam External Foundry/Subcon Sites: None		

Description and Purpose:

As part of ON Semiconductor's high commitments towards continuous quality improvement, this Final Product Change Notification (FPCN) is announcing that ON Semiconductor is qualifying Flat Bottom Dimple Clip industrial-qualified OPNs of Schottkty Rectifiers in SMA and SMB packages. These OPNs can be continuously dual-source, either from ON Semiconductor Seremban or ON Semiconductor Vietnam. The orderable part number will remain the same.

Upon the expiration of this FPCN, customer will receive parts with new clip design as per below details:

Materials to be Changed		Before Change Description	After Change Description
Clin Dosign	Clip Thickness	12mil	8mil
Clip Design	Clip Bottom Dimple Shape	Round bottom dimple shape	Flat bottom dimple shape

The change enhances the products' robustness that does not alter the product performances. All qualifications data are meeting the existing product specifications.

TEM001793 Rev. O Page 1 of 4



Final Product/Process Change Notification Document #: FPCN22325X

Issue Date: 12 June 2018

Reliability Data Summary:

NRVBA130LT3G

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=85°C, 100% max rated V	1008 hrs	0/252
TC	JESD22-A104	Ta= -55°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 = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 10 sec		0/45

NRVBS260T3G

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=Tj max°C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
H3TRB	JESD22-A101	85°C, 85% RH, 80% rated bias	1008 hrs	0/231
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 10 sec		0/45

NRVBS3200T3G

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=Tj max °C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
H3TRB	JESD22-A101	85°C, 85% RH, , 80% rated bias	1008 hrs	0/231
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 10 sec		0/45

TEM001793 Rev. O Page 2 of 4



Final Product/Process Change Notification Document #: FPCN22325X

Issue Date: 12 June 2018

Electrical Characteristic Summary:

There are no changes in electrical characteristic; product performance meets data sheet specifications. Characterization data is available upon request.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
MBRA120ET3G	
MBRA130LT3G	
MBRA140T3G	
MBRA160T3G	NRVBA130LT3G
MBRA1H100T3G	
MBRA320T3G	
SS16T3G	
MBRS140T3H	
MBRS1540T3G	
MBRS230LT3G	
MBRS240LT3G	
MBRS360BT3G	
MBRS120T3G	
MBRS120T3H	
MBRS130LT3G	
MBRS130LT3H	
MBRS130T3G	
MBRS130T3H	NDVDC2COT2C
MBRS140T3G	NRVBS260T3G
MBRS2040LT3G	
MBRS2040LT3H	
MBRS240LT3H	
MBRS260T3G	
MBRS260T3H	
SS22T3G	
SS24T3G	
SS24T3H	
SS26T3G	
SS26T3H	

TEM001793 Rev. O Page 3 of 4



Final Product/Process Change Notification Document #: FPCN22325X Issue Date: 12 June 2018

MBRS1100T3G	
MBRS1100T3H	
MBRS190T3G	NDVDC2200T2C
MBRS190T3H	NRVBS3200T3G
MBRS2H100T3G	
MBRS3200T3G	

TEM001793 Rev. O Page 4 of 4