ON Semiconductor

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20670

Generic Copy

Issue Date: 13-Oct-2014

TITLE: Qualification of ON Semiconductor Vietnam (OSV) for the Assembly and Test of Rectifiers packaged in TO220.

PROPOSED FIRST SHIP DATE: 20-Jan-2015

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Assembly & Test

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or following Product Engineers:

Rectifiers	**Raja Roziah**	**Raja.Roziah.Rahmat@onsemi.com**

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Reliability Engineer Chean Ching Sim <cheanching.sim@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

This FPCN announces the planned capacity expansion of ON Semiconductor's assembly and test operations of TO-220 discrete packaged products. These products are currently built at Nantong Fujitsu Microelectronics Co., Ltd (NFME) and Nantong Huada Microelectronics Group Co. Ltd (Huada), China.

Upon the expiration of this FPCN, ON Semiconductor Vietnam will be added as a third assembly and test facility for Rectifiers. These products have been qualified to industrial requirements. These products will continue being Pb-free, and RoHS compliant. All products sourced from OSV will be Halide free.

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RELIABILITY DATA SUMMARY:

MUR1660CTG

Test:	Conditions:	Interval:	Results
Autoclave	Ta =121°C RH=100% 15 psig	96 hrs	0/240
TC	Ta = -65°C to 150°C	1000 cycles	0/240
H3TRB	Ta = 85°C RH=85% Bias = 80% rated V or 100V Max	1008 hrs	0/240
IOL	Ta = 25°C, Delta TJ = 100°C, Ton/off = 3.5 min.	8572 cycles	0/240
HTRB	Ta = 150°C, 80% Rated Voltage	1008 hrs	0/240
HTSL	Ta = 150°C	1008 hrs	0/240
RSH	Ta = 260°C, 10 sec dwell		0/90
Solderability	Steam Aging = 8hrs	8 hrs	0/45

MBR60L45CTG

Test:	Conditions:	Interval:	Results
Autoclave	Ta =121°C RH=100% 15 psig	96 hrs	0/80
TC	Ta = -65°C to 150°C	1000 cycles	0/80
H3TRB	Ta = 85°C RH=85% Bias = 80% rated V or 100V Max	1008 hrs	0/80
IOL	Ta = 25°C, Delta TJ = 100°C, Ton/off = 3.5 min.	8572 cycles	0/80
HTRB	Ta = 85°C, 80% Rated Voltage	1008 hrs	0/80
HTSL	Ta = 150°C	1008 hrs	0/80
RSH	Ta = 260°C, 10 sec dwell		0/30
Solderability	Steam Aging = 8hrs	8 hrs	0/15

ELECTRICAL CHARACTERISTIC SUMMARY:

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

CHANGED PART IDENTIFICATION:

Product from On Semiconductor Vietnam (OSV) will be marked with site code VN prior to date code.

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List of affected General Parts:

BYV32-200G	MBR30H100CTH
BYW51-200G	MBR30H150CTG
MBR10L60CTG	MBR30H30CTG
MBR1535CTG	MBR30L60CTG
MBR1545CTG	MBR4015CTLG
MBR1545CTH	MBR40250TG
MBR16100CTG	MBR40L45CTG
MBR16100CTH	MBR40L45CTH
MBR20200CTG	MBR40L60CTG
MBR2030CTLG	MBR41H100CTG
MBR2045CTH	MBR41H100CTH
MBR2060CTG	MBR60H100CTG
MBR2080CTG	MBR60L45CTG
MBR2090CTG	MBR60L45CTH
MBR20H100CTH	MUR1610CTG
MBR20H150CTG	MUR1615CTG
MBR20H150CTH	MUR1620CTG
MBR20L45CTG	MUR1620CTRG
MBR20L60CTG	MUR1640CTG
MBR2535CTG	MUR1640CTH
MBR2535CTLG	MUR1660CTG
MBR2545CTG	MUR620CTG
MBR2545CTH	MURH840CTG
MBR3045STG	MURH860CTG
MBR30H100CTG	