ON Semiconductor

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16676A

Generic Copy

Issue Date: 07-Nov-2012

TITLE: Qualification of Nantong Huada Microelectronics Group Co., Ltd. for Assembly and Test of TO-220 Rectifiers.

PROPOSED FIRST SHIP DATE: 07-Feb-2013

AFFECTED CHANGE CATEGORY(S): Assembly and Test location

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or Norfizah Mohd Ariffin <norfizah.mohdariffin@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Laura Rivers at <laura.rivers@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 currently built at the Nantong-Fujitsu in China facility to Nantong-Huada Microelectronics Group in China. The purpose of this FPCN is to announce additional part numbers to the original FPCN 16676 Issued 13-JUL-2011. Upon the expiration of this FPCN, these Rectifier devices may be processed at either location. These products have been qualified to commodity/commercial requirements. Nantong Huada Microelectronics is a supplier of power packages to many semiconductor companies and is ISO9001 and ISO14001 qualified.

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RELIABILITY DATA SUMMARY:

Qualification Vehicles: MBR20H150CTG, MBR20200CTG

MBR20H150CTG

Test:	Conditions:	Interval:	Results
HTSL	Ta=150℃	1008 hrs	0/240
Autoclave	Ta=121℃ RH=100% ~15 psig	96 hrs	0/240
H3TRB	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
Temp Cycle	Ta= -65℃ to 150℃	1000 cyc	0/240
IOL	Ta=25℃, Delta TJ=100℃, Ton/off = 2 min.	8572 cyc	0/240
RSH	Ta=260℃, 10 Sec dwell		0/90
Solderability	Ta=245℃, 10 Sec dwell		0/45

MBR20200CTG

HTRB	Ta=150℃,80% Rated Voltage	1008 hrs	0/240
Autoclave	Ta=121℃ RH=100% ~15 psig	96 hrs	0/240
H3TRB	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/240
Temp Cycle	Ta= -65℃ to 150℃	1000 cyc	0/240
IOL	Ta=25℃, Delta TJ=100℃, Ton/off = 2 min.	8572 cyc	0/240
RSH	Ta=260℃, 10 Sec dwell		0/90
Solderability	Ta=245℃, 10 Sec dwell		0/45

ELECTRICAL CHARACTERISTIC SUMMARY:

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

CHANGED PART IDENTIFICATION:

Product from Nantong Huada will be identified by AF site code marking.

List of affected General Parts:

MBR20H150CTG
MBR30H100CTG