



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16472Generic Copy

11-May-2010

TITLE: Qualification of Nantong-Fujitsu Microelectronics for Assembly/Test of TO-247 Ultrafast Rectifiers.

PROPOSED FIRST SHIP DATE: 11-Aug-2010

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

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Mike Schager at mike.schager@onsemi.com

SAMPLES: Contact your local ON Semiconductor Sales Office or Mike Schager at mike.schager@onsemi.com

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 FPCN16472 (a follow up to FPCN16371) announces the planned capacity expansion of ON Semiconductor's assembly and test operations of TO-247 Discrete packaged products, currently built at the PSI Manila facility, to Nantong-Fujitsu's China facility. Upon the expiration of this FPCN, these Ultrafast Rectifier devices may be processed at either location. The Nantong-Fujitsu facility is currently used to manufacture ON's TO-220AB, TO-220AC, I2PAK, TO-247 & DPAK devices, and is ISO/TS 16949:2002 certified.



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RELIABILITY DATA SUMMARY:**Reliability Test Results:**

Package: TO-247

Qualification Vehicles:

MJW21195G

MJW21196G

MBR40H100WTG

MBR7030WTG

MUR3060WTG

MJW21195G

Test:	Conditions:	Interval:	Results
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/77
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or 100V Max	1008 hrs	0/77
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min.	8572 cyc	0/77
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/77
RSH	Ta=260C, 10 sec dwell		0/30

MJW21196G

Test:	Conditions:	Interval:	Results
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/77
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or 100V Max	1008 hrs	0/77
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min.	8572 cyc	0/77
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/77
RSH	Ta=260C, 10 sec dwell		0/30

MBR40H100WTG

Test:	Conditions:	Interval:	Results
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/154
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or 100V Max	1008 hrs	0/154

MBR7030WTG

Test:	Conditions:	Interval:	Results
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/154
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/154
RSH	Ta=260C, 10 sec dwell		0/60

MUR3060WTG

Test:	Conditions:	Interval:	Results
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/154
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or 100V Max	1008 hrs	0/154

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16472****ELECTRICAL CHARACTERISTIC SUMMARY:**

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

CHANGED PART IDENTIFICATION:

Product from Nantong-Fujitsu will be identified by NF site code marking.



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List of affected General Parts:

MUR3020WTG
MUR3040WTG
MUR3060WTG