



UPDATE CHANGE NOTIFICATION # 16676Generic Copy

Issue Date: 23-Feb-2012**TITLE:** Update to FPCN16676 - Qualification of Nantong Huada Microelectronics Group Co., Ltd. for Assembly and Test of TO-220 Bipolar Power Transistors and Rectifiers.**PROPOSED FIRST SHIP DATE:** 23-May-2012**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or Laura Rivers<laura.rivers@onsemi.com> or Raja Roziah Raja Rahmat<Raja.Roziah.Rahmat@onsemi.com>**SAMPLES:** Contact your local ON Semiconductor Sales Office**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or
Farrah Awang Omar<Farrah.Omar@onsemi.com> (Bipolar Transistors)
Norfizah Mohd Ariffin <norfizah.mohdariffin@onsemi.com> (Rectifiers)
Don Knudsen< Don.Knudsen@onsemi.com> (Rectifiers)**NOTIFICATION TYPE:**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:**

FPCN16676 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 and PSI Philippines, to Nantong-Huada Microelectronics Group in China. Upon the expiration of this FPCN, these Bipolar Power Transistors and Rectifiers 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.

This UN is to clarify that 2N6042G was included in the uploaded affected device list for FPCN16676 but was unintentionally omitted from the Generic PCN document. This is also to add 10 more devices that will undergo the change described in FPCN16676.



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RELIABILITY DATA SUMMARY:

Qualification Vehicles: MJE15032G, MJE15033G, MUR20200CTG, MUR1660CTG

MJE15032G

Test:	Conditions:	Interval:	Results
HTRB	Ta=150°C,80% Rated Voltage	1008 hrs	0/240
Autoclave	Ta=121°C 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°C to 150°C	1000 cyc	0/240
IOL	Ta=25°C, Delta TJ=100°C, Ton/off = 2 min.	8572 cyc	0/240
RSH	Ta=260°C, 10 Sec dwell		0/90
Solderability	Ta=245°C, 10 Sec dwell		0/45

MJE15033G

HTRB	Ta=150°C,80% Rated Voltage	1008 hrs	0/240
Autoclave	Ta=121°C 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°C to 150°C	1000 cyc	0/240
IOL	Ta=25°C, Delta TJ=100°C, Ton/off = 2 min.	8572 cyc	0/240
RSH	Ta=260°C, 10 Sec dwell		0/90
Solderability	Ta=245°C, 10 Sec dwell		0/45

MBR20200CTG

HTRB	Ta=150°C,80% Rated Voltage	1008 hrs	0/240
Autoclave	Ta=121°C 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°C to 150°C	1000 cyc	0/240
IOL	Ta=25°C, Delta TJ=100°C, Ton/off = 2 min.	8572 cyc	0/240
RSH	Ta=260°C, 10 Sec dwell		0/90
Solderability	Ta=245°C, 10 Sec dwell		0/45

MUR1660CTG

HTRB	Ta=150°C,80% Rated Voltage	1008 hrs	0/240
Autoclave	Ta=121°C 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°C to 150°C	1000 cyc	0/240
IOL	Ta=25°C, Delta TJ=100°C, Ton/off = 2 min.	8572 cyc	0/240
RSH	Ta=260°C, 10 Sec dwell		0/90
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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:

2N6042G
MBR20200CTG
MBR2545CTG
MBR1545CTG
MBR2535CTLG
MUR1640CTG
MUR1620CTRG
MURH840CTG
MURH860CTG
MUR1660CTG
MUR1620CTG