



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16676

Generic Copy

Issue Date: 13-Jul-2011

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

PROPOSED FIRST SHIP DATE: 13-Oct-11

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or
Farrah Awang Omar at Farrah.Omar@onsemi.com (Bipolar Transistors)
Norfizah Mohd Ariffin at norfizah.mohdariffin@onsemi.com (Rectifiers)

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Laura Rivers < 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 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.



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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
Solderability	Ta=245°C, 10 Sec dwell		0/45



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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.



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List of affected General Parts:

2N6040G	BUL45D2G	TIP102G
2N6043G	BUL45G	TIP106G
2N6045G	BUV26G	TIP107G
2N6107G	BUV27G	TIP110G
2N6109G	BUX85G	TIP111G
2N6111G	D44H11G	TIP112G
2N6288G	D44H8G	TIP115G
2N6292G	D44VH10G	TIP116G
2N6387G	D45C12G	TIP117G
2N6388G	D45H11G	TIP120G
2N6487G	D45H8G	TIP121G
2N6488G	D45VH10G	TIP122G
2N6490G	MBR2045CTG	TIP125G
2N6491G	MBR2060CTG	TIP126G
2N6667G	MBR20L45CTG	TIP127G
BD241CG	MBR3045STG	TIP29AG
BD242BG	MJE13005G	TIP29BG
BD242CG	MJE13007G	TIP29CG
BD243CG	MJE13009G	TIP30CG
BD244BG	MJE15028G	TIP31AG
BD244CG	MJE15029G	TIP31BG
BD809G	MJE15030G	TIP31CG
BD810G	MJE15031G	TIP31G
BDW42G	MJE15032G	TIP32AG
BDW46G	MJE15033G	TIP32BG
BDW47G	MJE15034G	TIP32CG
BDX33BG	MJE15035G	TIP32G
BDX33CG	MJE18002G	TIP41AG
BDX34BG	MJE18004G	TIP41BG
BDX34CG	MJE18008G	TIP41CG
BDX53BG	MJE2955TG	TIP42AG
BDX53CG	MJE3055TG	TIP42BG
BDX54BG	MJE5730G	TIP42CG
BDX54CG	MJE5731AG	TIP42G
BU406G	MJE5731G	TIP47G
BUH100G	MJE5742G	TIP48G
BUH150G	TIP100G	TIP50G
BUH50G	TIP101G	