



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16587Generic Copy

Issue Date: 07-Mar-2011

TITLE: Qualification of Nantong Fujitsu Microelectronics Co.,Ltd. for Assembly/Test of D2PAK (TO-263) Bipolar Power Transistors, Power Schottky and Ultrafast Rectifiers.

PROPOSED FIRST SHIP DATE: 07-Jun-2011

AFFECTED CHANGE CATEGORY(S):

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or

Bipolar Power Transistors: Jose Ramirez < jose.l.ramirez@onsemi.com >

Power Schottky and Ultrafast Rectifiers: Don Knudsen < Don.Knudsen@onsemi.com >

SAMPLES: Contact your local ON Semiconductor Sales Office or

Bipolar Power Transistors: Farrah Awang Omar < farrah.omar@onsemi.com >

Power Schottky and Ultrafast Rectifiers: Norfizah Mohd Ariffin < norfizah.mohdariffin@onsemi.com >

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 D2PAK (TO-263) discrete packaged products, currently built at ON Semiconductor Seremban facility, to Nantong Fujitsu Microelectronics Co., Ltd. at China.

Upon the expiration of this FPCN, these Bipolar Power Transistors, Power Schottky and Ultrafast Rectifiers devices may be processed at either location. These products have been qualified to commodity/commercial requirements. Nantong Fujitsu is a current ON Semiconductor supplier of other power packages and is ISO9002, ISO14001 and TS16949 certified. These products will continue being Pb-free, Halide free and RoHS compliant. Minor non-critical dimensional changes to the ON semi case outline are included in this notice.



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RELIABILITY DATA SUMMARY:

Package: D2PAK TO-263

Qualification Vehicles:

MJB41CT4G
MJB45H11T4G
MURB1660CTT4G
MBRB4030T4G

Reliability Test Results:

MJB41T4G

Test:	Conditions:	Interval:	Results
HTRB	Ta=150C, 80% Rated Voltage	1008 hrs	0/160
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/160
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or 100V Max	1008 hrs	0/160
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min.	8572 cyc	0/160
TC+PC	Ta= -65 C to 150 C	500 cyc	0/160
RSH	Ta=260C, 10 sec dwell		0/60
Solderability	Ta=245C, 10sec dwell		0/30

MJB45H11T4G

Test:	Conditions:	Interval:	Results
HTRB	Ta=150C, 80% Rated Voltage	1008 hrs	0/160
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/160
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or 100V Max	1008 hrs	0/160
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min.	8572 cyc	0/160
TC+PC	Ta= -65 C to 150 C	500 cyc	0/160
RSH	Ta=260C, 10 sec dwell		0/60
Solderability	Ta=245C, 10sec dwell		0/30


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MBRB4030T4G

Test:	Conditions:	Interval:	Results
HTRB	Tj=150C, 80% Rated Voltage	1008 hrs	0/160
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/160
H3TRB+PC	Ta=85C RH=85%	1008 hrs	0/160
	bias=80% rated V or 100V Max		
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min.	8572 cyc	0/160
TC+PC	Ta= -65 C to 150 C	500 cyc	0/160
RSH	Ta=260C, 10 sec dwell		0/60
Solderability	Ta=245C, 10sec dwell		0/30

MURB1660CTT4G

Test:	Conditions:	Interval:	Results
HTRB	Ta=150C, 80% Rated Voltage	1008 hrs	0/160
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/160
H3TRB+PC	Ta=85C RH=85%	1008 hrs	0/160
	bias=80% rated V or 100V Max		
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min.	8572 cyc	0/160
TC+PC	Ta= -65 C to 150 C	500 cyc	0/160
RSH	Ta=260C, 10 sec dwell		0/60
Solderability	Ta=245C, 10sec dwell		0/30

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:

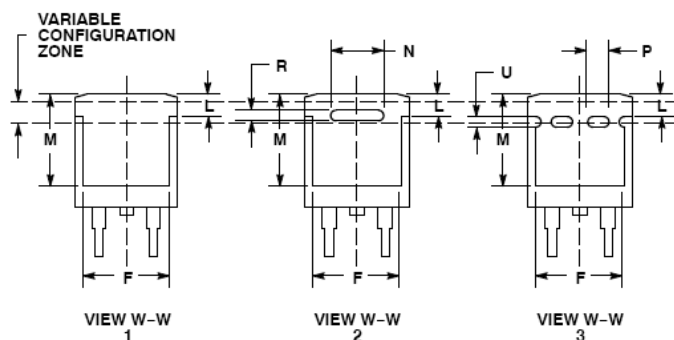
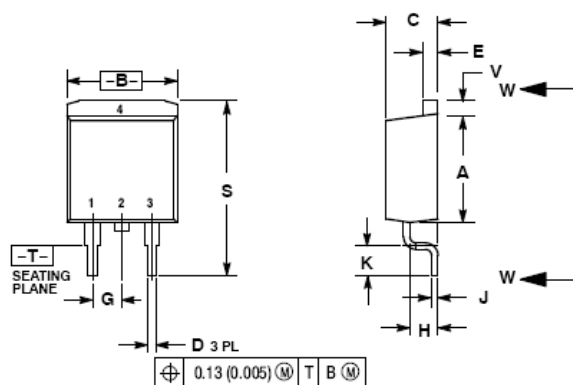
Product from Nantong Fujitsu will be identified by NF site code marking.



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NEW CASE OUTLINE DIMENSIONS:

Dim	NEW ON Semi	
	Min	Max
A	8.64	9.65
B	9.65	10.29
C	4.06	4.83
D	0.51	0.90
E	1.14	1.40
F	7.80	8.89
G	2.54 BSC	
H	2.03	2.79
J	0.34	0.64
K	2.00	2.79
L	1.17	1.83
M	6.60	8.13
N	5.00 REF	
P	2.00 REF	
R	0.99 REF	
S	14.60	15.88
V	1.14	1.40





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List of affected General Parts:

BUB323ZT4G
MJB42CT4G
MJB44H11T4G
MJB45H11T4G
MJB41CT4G
MBRB1045T4G
MBRB1545CTT4G
MBRB20100CTT4G
MBRB20200CTT4G
MBRB20H100CTT4G
MBRB2545CTT4G
MBRB4030T4G
MURB1620CTRT4G
MURB1620CTT4G
MURB1660CTT4G
MBRB8H100T4G
MBRB3030CTT4G
MBRB2515LT4G
MBRB1645T4G
MBRB2535CTLT4G
MBRB2060CTT4G
MURHB840CTT4G
MURHB860CTT4G
MBRB41H100CTT4G
MBRB60H100CTT4G
MBRB30H60CTT4G