



UPDATE CHANGE NOTIFICATION # 16477Generic Copy

Issue Date: 09-Jun-2010

TITLE: Final Notification for Transfer of the Low Voltage Bipolar Planar and EMI Filters from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia)

PROPOSED FIRST SHIP DATE: 02-Sep-2010

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Fab Site

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Laura Rivers
<laura.rivers@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or following Contact Product Engineers:

FPCN Contact person by Affected Technology:

Low Voltage Bipolar Planar	Farrah Awang Omar	farrah.omar@onsemi.com
EMI Filters	Yew Hee Soon	y.soon@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:

ON Semiconductor is notifying customers of this update notification to a previous issued FPCN#16477. The only updated information is a correction to the qualification vehicle identified in the original FPCN. We corrected the third qualification vehicle to the NUF2450MUT2G and deleted the ESD11N5.0ST5G.

Original FPCN#16477 is below:

ON Semiconductor is notifying customers of its plan to transfer Low Voltage Bipolar Planar and EMI Filters products from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia).



UPDATE CHANGE NOTIFICATION #16477

The ISMF facility is an ON Semiconductor owned wafer fab that has been producing products for ON Semiconductor since 1998. Several existing technologies within ON Semiconductor's product families are currently sourced from ISMF, including Zener Diodes, Small Signal Diodes, Small Signal Bipolar Transistor, and USB array filter products. ON Semiconductor Seremban Wafer FAB is an internal factory that is TS16949, ISO-9001 and ISO-14000 certified.

Qualification tests are designed to show that the reliability of transferred devices will continue to meet or exceed ON Semiconductor standards.

Products listed in this final PCN should be transferred to ON Semiconductor ISMF Fab in Seremban (Malaysia) starting 3rd Sep 2010. After 3rd Sep 2010, customer may receive products from either facility.

QUALIFICATION PLAN:

Reliability testing was performed on qualification vehicles chosen based on die size, voltage rating, and run rates.

RELIABILITY DATA SUMMARY FOR LOW VOLTAGE BIPOLAR PLANAR:

Package: TO220, DPAK

Qual Vehicles:

MJE5852G, Package: TO220

Test:	Conditions:	Interval:	Results
HTRB	TA=150C, 80% Rated Voltage	1008 hrs	0/80
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB+PC	Ta=85C RH=85%	1008 hrs	0/80
	bias=80% rated V or 100V Max		
IOL+PC	Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min.	8572 cyc	0/80
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/80
RSH	Ta=260C, 10 sec dwell		0/30
DPA	post TC		0/2
DPA	post H3TRB		0/2

MJD340G, Package: Dpak

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 = 2 min.	15000 cyc	0/160
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/160
RSH	Ta=260C, 10 sec dwell		0/30
DPA	post TC		0/4
DPA	post H3TRB		0/4

**UPDATE CHANGE NOTIFICATION #16477****RELIABILITY DATA SUMMARY FOR EMI FILTERS:**

Package: WDFN

Qual Vehicles:

NUF2450MUT2G

Test:	Conditions:	Interval:	Results
HTRB	TA=125C, 80% Rated Voltage	1008 hrs	0/240
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
HAST+PC	Ta=131C RH=85% , ~18.8psig Bias = 80% rated V or 100V Max	96 hrs	0/240
TC+PC	Ta= -65 C to 150 C	500 cyc	0/240
RSH	Ta=260C, 10 sec dwell		0/30
DPA	post TC		0/6
DPA	post HAST		0/6

ELECTRICAL CHARACTERISTIC SUMMARY:

Available upon request.

CHANGED PART IDENTIFICATION:

Affected products from ON Semiconductor with date code 1032 or F representing WW35, 2010 and greater may be sourced from either the ISMF Fab in Seremban (Malaysia) or the ZR Fab in Phoenix (USA).

**UPDATE CHANGE NOTIFICATION #16477****List of affected General Parts for Low Voltage Bipolar Planar:**

2N5038
2N5038G
2N5655G
2N5657
2N5657G
2N6338G
2N6341G
BD135G
BD136G
BD137G
BD138G
BD139G
BD140G
BD159G
BD787G
BD788G
BU406G
BUV21
BUV21G
BUV22G
BUV26G
BUV27G
D44C12G
D44H11G
D44H8G
D44VH10G
D45C12G
D45H11G
D45H8G
D45VH10G
MJB44H11G
MJB44H11T4
MJB44H11T4G
MJB45H11G
MJB45H11T4
MJB45H11T4G
MJC5038WP
MJD200G
MJD200RL
MJD200RLG
MJD200T4
MJD200T4G
MJD200T5G
MJD210G
MJD210RLG
MJD210T4
MJD210T4G
MJD243G
MJD243T4
MJD243T4G
MJD253-1G
MJD253T4

**UPDATE CHANGE NOTIFICATION #16477**

MJD253T4G
MJD340G
MJD340RL
MJD340RLG
MJD340T4
MJD340T4G
MJD350
MJD350G
MJD350T4
MJD350T4G
MJD350T4H
MJD44E3T4
MJD44E3T4G
MJD44H11
MJD44H11-1G
MJD44H11G
MJD44H11RL
MJD44H11RLG
MJD44H11T4
MJD44H11T4G
MJD44H11T5G
MJD45H11
MJD45H11-1G
MJD45H11G
MJD45H11RL
MJD45H11RLG
MJD45H11T4
MJD45H11T4G
MJD5731T4G
MJE15028G
MJE15029G
MJE15030G
MJE15031G
MJE15032G
MJE15033G
MJE15035G
MJE170G
MJE171G
MJE172G
MJE180
MJE180G
MJE181G
MJE182
MJE182G
MJE200
MJE200G
MJE210G
MJE210TG
MJE243
MJE243G
MJE253
MJE253G
MJE270G
MJE271G
MJE340

**UPDATE CHANGE NOTIFICATION #16477**

MJE340G
MJE3439
MJE3439G
MJE344
MJE344G
MJE350
MJE350G
MJE5730G
MJE5731AG
MJE5731G
MJE5850G
MJE5851G
MJE5852G
MJEC15030WP
MJEC15031WP
MJEC15032TR
MJEC15033TR
MJEC340WP
MJEC350WP
MJF15030G
MJF15031G
MJF44H11G
MJF45H11G
MJL1302AG
MJL4281AG
MJL4302AG
MJW1302AG
MMJT350T1G
NJD2873
NJD2873T4
NJD2873T4G
NJL0281DG
NJL0302DG
NJL1302DG
NJL4281DG
NJL4302DG
NJW0281G
NJW0302G
NJW1302G

List of affected General Parts for EMI Filters:

NUF2450MUT2G
NUF4220MNT1G



UPDATE CHANGE NOTIFICATION #16477

List of affected Customer Specific Parts for Low Voltage Bipolar Planar:

NJVMJD340T4G
NJVMJD44H11T4
NJVMJE15031G
NJVMJE15032G
NJVNJD2873T4G
SJ7158G
SJC45H11PF
SJC45H11TR
SJC45H11TS1
SJD1030-001
SJD1030T4
SJD1030T4G
SJD1031T4
SJD1031T4G
SJD200T4
SJD200T4G
SJD44H12T4
SJD45H11T4
SJD45H11T4G
SJW1302G
SMJD44H11T4G
SMMJT350T1G
TE02462TG
TE02463TG