



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16410Generic Copy

12-May-2010

TITLE: Final Notification for Phase 2 Transfer of Ultrafast Rectifiers from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia)

PROPOSED FIRST SHIP DATE: 12-Aug-2010

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Fab Site

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Raja Roziah Raja Rahmat
< Raja.Roziah.Rahmat@onsemi.com >

SAMPLES: Contact your local ON Semiconductor Sales Office or Raja Roziah Raja Rahmat
< Raja.Roziah.Rahmat@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 is an FPCN from IPCN 16250 and a follow up to FPCN 16365. ON Semiconductor is notifying customers that these additional Ultrafast Rectifier products will transfer from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia).

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 Schottky & Ultrafast Rectifiers, Zener Diodes, Small Signal Transistor, and USB array filter products. ON Semiconductor Seremban Wafer FAB is an internal factory that is TS16949, ISO-9001 and ISO-14000 certified.



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RELIABILITY DATA SUMMARY:

QUALIFICATION PLAN

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

Reliability Test Results:

Package: TO-220AB
Qual Vehicle: MUR1660CTG

| Test: | Conditions: | Interval: | Results |
|-----------|---|-------------|---------|
| HTRB | Ta=150C, 80% rated V | 1008 hrs | 0/240 |
| AUTOCLAVE | Ta=121C RH=100% ~15 psig | 96 hrs | 0/240 |
| H3TRB | Ta= 85C RH=85% | | |
| | bias=80% rated V or 100V Max | 1008 hrs | 0/240 |
| IOL | Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min. | 8572 cyc | 0/240 |
| TC | Ta= -65 C to 150 C air to air | 1000 cyc | 0/240 |
| RSH | Ta=260C, 10 sec dwell | post stress | 0/30 |
| DPA | AEC Q101-004 | post TC | 0/6 |
| DPA | AEC Q101-004 | post H3TRB | 0/6 |

Package: TO-220AB
Qual Vehicle: MUR1620CTRG

| Test: | Conditions: | Interval: | Results |
|-----------|---|-------------|---------|
| HTRB | Ta=150C, 80% rated V | 1008 hrs | 0/240 |
| AUTOCLAVE | Ta=121C RH=100% ~15 psig | 96 hrs | 0/240 |
| H3TRB | Ta= 85C RH=85% | | |
| | bias=80% rated V or 100V Max | 1008 hrs | 0/240 |
| IOL | Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min. | 8572 cyc | 0/240 |
| TC | Ta= -65 C to 150 C air to air | 1000 cyc | 0/240 |
| RSH | Ta=260C, 10 sec dwell | post stress | 0/30 |
| DPA | AEC Q101-004 | post TC | 0/6 |
| DPA | AEC Q101-004 | post H3TRB | 0/6 |

Package: TO-220AC
Qual Vehicle: MSR1560G

| Test: | Conditions: | Interval: | Results |
|-----------|---|-------------|---------|
| HTRB | Ta=150C, 80% rated V | 1008 hrs | 0/240 |
| AUTOCLAVE | Ta=121C RH=100% ~15 psig | 96 hrs | 0/240 |
| H3TRB | Ta= 85C RH=85% | | |
| | bias=80% rated V or 100V Max | 1008 hrs | 0/240 |
| IOL | Ta=25C, Delta TJ = 100 C, Ton/off = 3.5 min. | 8572 cyc | 0/240 |
| TC | Ta= -65 C to 150 C air to air | 1000 cyc | 0/240 |
| RSH | Ta=260C, 10 sec dwell | post stress | 0/30 |
| DPA | AEC Q101-004 | post TC | 0/6 |
| DPA | AEC Q101-004 | post H3TRB | 0/6 |



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ELECTRICAL CHARACTERISTIC SUMMARY:

Available upon request. Contact Raja Roziah Raja Rahmat<Raja.Roziah.Rahmat@onsemi.com>

CHANGED PART IDENTIFICATION:

Affected products from ON Semiconductor with date code ww32 and greater may be sourced from either the ISMF Fab in Seremban (Malaysia) or the ZR Fab in Phoenix (USA).



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List of affected General Parts:

| | | | |
|---------------|----------------|-----------------|--------------|
| BYV32-200G | MUR840G | MURF860G | SURC320PF |
| BYW29-200G | MUR860G | MURF860H | SURD8320T4 |
| BYW29-200H | MUR860H | MURH840CTG | SURD8320T4G |
| BYW51-200G | MURB1620CTG | MURH860CTG | SURD8330T4G |
| BYW80-200G | MURB1620CTRG | MURHB840CTG | SURHD8560T4G |
| MSR1560G | MURB1620CTRT4G | MURHB840CTT4 | SURHS8160T3G |
| MSR860G | MURB1620CTT4 | MURHB840CTT4G | SURS8340T3G |
| MSRD620CTG | MURB1620CTT4G | MURHB860CTT4G | SURS8360BT3G |
| MSRD620CTRG | MURB1660CTG | MURHC860CTWP | TURC160TR |
| MSRD620CTT4 | MURB1660CTT4G | MURHD560T4G | TURC160TR1 |
| MSRD620CTT4G | MURC120WP | MURHD560W1T4G | |
| MSRD620CTT4RG | MURC1510WP | MURHF860CTG | |
| MSRF1560G | MURC1520WP | NRVUB1620CTRT4 | |
| MSRF860G | MURC1540WP | NRVUB1620CTRT4G | |
| MUR1510G | MURC1560WP | NRVUB1620CTT4 | |
| MUR1515G | MURC160WP | NRVUB1620CTT4G | |
| MUR1520G | MURC240WP | NRVUD620CTG | |
| MUR1540G | MURC3020WP | NRVUD620CTT4G | |
| MUR1560G | MURC3040WP | NRVUS230T3G | |
| MUR1560H | MURC820WP | SSRD8620CTT4G | |
| MUR1610CTG | MURC860WP | SUR620CTT4G | |
| MUR1615CTG | MURD305RL | SUR8115RLG | |
| MUR1620CTG | MURD310T4 | SUR81520G | |
| MUR1620CTRG | MURD320T4 | SUR81560G | |
| MUR1640CTG | MURD320T4G | SUR8160RLG | |
| MUR1640CTH | MURD330T4 | SUR8460RLG | |
| MUR1660CTG | MURD330T4G | SUR8820G | |
| MUR2020RG | MURD340T4G | SUR8840G | |
| MUR3020PTG | MURD530T4G | SURA8110T3G | |
| MUR3020WTG | MURD550PFT4G | SURA8120T3G | |
| MUR3040PTG | MURD610CTT4 | SURA8130T3G | |
| MUR3040WTG | MURD620CT1 | SURA8140T3G | |
| MUR3060PTG | MURD620CTG | SURA8160T3G | |
| MUR3060WTG | MURD620CTH | SURA8210T3G | |
| MUR550PFG | MURD620CTT4 | SURA8215T3G | |
| MUR620CTG | MURD620CTT4G | SURA8220T3G | |
| MUR805G | MURF1560G | SURA8240T3G | |
| MUR810G | MURF1620CTG | SURA8260T3G | |
| MUR815G | MURF1660CTG | SURB1620CTT4 | |
| MUR820G | MURF550PFG | SURB1620CTT4G | |



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List of affected Customer Specific Parts:

SURB100CTT4
SURB100CTT4G
SURB121CTT4
SURB121CTT4G
SURC215-120WP
SURD106T4G
SURD107T4G
SURD5525PFT4G
SURF1620CT-SPG
TURC120TS1
TURC1310PF
TURC1310TR
TURC160TS1