



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16493Generic Copy

Issue Date: 23-Jun-2010**TITLE:** Final Notification for SOD123 assembly in ON Leshan as 2nd source**PROPOSED FIRST SHIP DATE:** 23-Sep-2010**AFFECTED CHANGE CATEGORY(S):** ON Semiconductor assembly location**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or <SueiHuey.Wong@onsemi.com>**SAMPLES:** Contact your local ON Semiconductor Sales Office or <SueiHuey.Wong@onsemi.com>**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or <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 the 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 its plan to qualify SOD-123 package assembly in ON Semiconductor's Leshan facility.

The bill of materials used in the SOD-123 package will remain the same between both ON Semiconductor's Seremban and Leshan facilities.

Reliability Qualification and full electrical characterization over temperature has been performed to ensure device functionality and electrical specifications are met.



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RELIABILITY DATA SUMMARY:

Reliability Test Results:

BAT54T1G

| Test: | Conditions: | Interval: | Results |
|--------------|---|-----------|---------|
| HTRB | TA=90C,80% Rated Voltage | 1008 hrs | 0/80 |
| Precondition | MSL1 @ 260C , 3 X IR at 260 C | | 0/320 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/80 |
| H3TRB+PC | Ta=85C RH=85% bias=80% rated V or100V Max | 1008 hrs | 0/80 |
| IOL+PC | Ta=25C, Delta TJ = 100 C, Ton/off = 2 min. | 15000 cyc | 0/80 |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/80 |
| HTSL | Ta= 150C | 1008 hrs | 0/80 |
| DPA | post TC | | 0/2 |
| DPA | post H3TRB | | 0/2 |

MMSD914T1G

| | | | |
|--------------|---|-----------|-------|
| HTRB | TA=150C,80% Rated Voltage | 1008 hrs | 0/80 |
| Precondition | MSL1 @ 260C , 3 X IR at 260 C | | 0/320 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/80 |
| H3TRB+PC | Ta=85C RH=85% bias=80% rated V or100V Max | 1008 hrs | 0/80 |
| IOL+PC | Ta=25C, Delta TJ = 100 C, Ton/off = 2 min. | 15000 cyc | 0/80 |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/80 |
| HTSL | Ta= 150C | 1008 hrs | 0/80 |
| DPA | post TC | | 0/2 |
| DPA | post H3TRB | | 0/2 |

MMSZ5254ET1G

| | | | |
|--------------|---|-----------|-------|
| HTRB | TA=150C,80% Rated Voltage | 1008 hrs | 0/80 |
| Precondition | MSL1 @ 260C , 3 X IR at 260 C | | 0/320 |
| Autoclave+PC | Ta=121C RH=100% ~15 psig | 96 hrs | 0/80 |
| H3TRB+PC | Ta=85C RH=85% bias=80% rated V or100V Max | 1008 hrs | 0/80 |
| IOL+PC | Ta=25C, Delta TJ = 100 C, Ton/off = 2 min. | 15000 cyc | 0/80 |
| TC+PC | Ta= -65 C to 150 C | 1000 cyc | 0/80 |
| HTSL | Ta= 150C | 1008 hrs | 0/80 |
| DPA | post TC | | 0/2 |
| DPA | post H3TRB | | 0/2 |

ELECTRICAL CHARACTERIZATION RESULTS:

Available upon request

CHANGED PART IDENTIFICATION:

Affected products from ON Semiconductor with date code 1039 representing WW39, 2010 and greater may be sourced from either the Seremban (Malaysia) factory or the Leshan (China) factory.



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List of affected General Parts:

MMSD4148T1G
MMSD4148T1GH
MMSD4148T3G
MMSD914T1G
MMSD914T1H
MMSD914T3G
MMSD301T1G
MMSD301T1H
MMSD701T1G