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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16604**Generic Copy

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Issue Date: 17-Mar-2011

**TITLE:** Final Notification for Transfer of the Thyristor Surge Protection Devices (TSPD) from ON Semiconductor ZR Fab in Phoenix (USA) to ON Semiconductor ISMF Fab in Seremban (Malaysia).

**PROPOSED FIRST SHIP DATE:** 17-Jun-2011

**AFFECTED CHANGE CATEGORY(S):** ON Semiconductor Fab Site

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or following contact Product Engineers by affected Technology: **Thyristor (TSPD)** - Suei Huey Wong<[sueihuey.wong@onsemi.com](mailto:sueihuey.wong@onsemi.com)>

**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](mailto: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](mailto:quality@onsemi.com)>.

**DESCRIPTION AND PURPOSE:**

ON Semiconductor is notifying customers of its plan to transfer Bidirectional TVS Diodes and Bidirectional ESD Diodes products 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 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 14<sup>th</sup> June 2011. After 14<sup>th</sup> June 2011, customer may receive products from either facility.

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16604****QUALIFICATION PLAN:**

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

**RELIABILITY DATA SUMMARY****THYRISTOR SURGE PROTECTION DEVICE (TSPD):**

Package: TSOP-5

Qual Vehicle:

NP0120TAT1G

Test:	Conditions:	Interval:	Results
HTRB	Ta=100C, 80% Rated Voltage	504 hrs	0/240
Autoclave+PC	Ta=121C RH=100% ~15 psig	96 hrs	0/240
H3TRB+PC	Ta=85C RH=85% bias=80% rated V or 100V Max	504 hrs	0/240
TC+PC	Ta= -65 C to 150 C	1000 cyc	0/240
RSH	Ta=260C, 10 sec dwell	0/30	

**ELECTRICAL CHARACTERISTIC SUMMARY:**

Available upon request

**CHANGED PART IDENTIFICATION:**

Affected products from ON Semiconductor with date code 1124 representing WW24, 2011 and greater may be sourced from either the ISMF Fab in Seremban (Malaysia) or the ZR Fab in Phoenix (USA).



**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16604**

**List of affected General Parts:**

**Thyristor Surge Protection Device (TSPD):**

**Parts:**

NP0080TAT1G

NP0120TAT1G

Note: Data Sheet is being revised to reflect historical production distributions. There is no actual change in the products.