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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #17001**Generic Copy

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**Issue Date:** 21-Feb-2013**TITLE:** MAX708 Device Family Qualification at Gresham Wafer Fab**PROPOSED FIRST SHIP DATE:** 21-May-2013**AFFECTED CHANGE CATEGORY(S):** Wafer Fab Location**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or [Todd.Manes@onsemi.com](mailto:Todd.Manes@onsemi.com).**SAMPLES:** Contact your local ON Semiconductor Sales Office or [Shilpa.Rao@onsemi.com](mailto:Shilpa.Rao@onsemi.com)**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or [Edmond.Gallard@onsemi.com](mailto:Edmond.Gallard@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 pleased to announce the qualification of the MAX708 family in ON Semiconductor's Gresham wafer fab facility on the AC MOS1 technology.

The MAX708 is currently produced at ON Semiconductor's Aizu wafer fab facility located in Aizu, Japan. Due to the announcement of the Aizu fab closure, this device family will be produced from ON Semiconductor's Gresham wafer fabrication facility located in Gresham, Oregon. Upon expiration (or approval) of this Final PCN, devices may be supplied by either wafer fab.

The Gresham wafer fab is compliant to ISO9001:2008, ISO/TS16949:2009, and ISO14001:2004.

Performance of device electrical parameters is the same for Aizu and Gresham-sourced devices. The HBM ESD performance for the GSH device is updated to 1000V. The latch up specification of +330mA/ -280mA applies to all pins of the GSH device but for the PFI input pin. A new datasheet revision will reflect the updated ESD and LU performance.

The MAX708 devices will continue to be assembled and tested in existing, qualified locations. No changes to packaging will occur as a result of this fab qualification.



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### RELIABILITY DATA SUMMARY:

#### Reliability Test Results:

The Gresham-sourced MAX708 family has been qualified based on the following test results:

Test	Conditions	Results
High Temp Op Life NCP304 NCP551 NCP2860 NCS2002	Ta=+125C, 1008 hours	0/80 (1 lot) 0/80 (1 lot) 0/80 (3 lots) 0/80 (1 lot)
Early Life Failure Rate NCP304 NCP551 NCS2002	Ta=+125C, 48 hours	0/800 (1 lot) 0/800 (1 lot) 0/800 (1 lot)
Highly Accelerated Stress NCP304 NCP551 NCS2002	Ta=131C/85% RH, 96 hours w/MSL1 pre-conditioning	0/80 (1 lot) 0/80 (1 lot) 0/80 (1 lot)
Unbiased Highly Accel. Stress NCP304 NCP551 NCP2860 NCS2002	Ta=131C/85% RH, 96 hours w/MSL1 pre-conditioning	0/80 (1 lot) 0/80 (1 lot) 0/80 (3 lots) 0/80 (1 lot)
Temperature Cycle NCP304 NCP551 NCP2860 NCS2002	-65C to +150C, 500 cycles	0/80 (1 lot) 0/80 (1 lot) 0/80 (3 lots) 0/80 (1 lot)
Scan Acoustical Tomography NCP304 NCP551 NCP2860 NCS2002	MSL1	0/5 (1 lot) 0/5 (1 lot) 0/5 (3 lots) 0/5 (1 lot)
ESD	Human Body Model Machine Model	Pass 1000V (MAX708) Pass 250V (MAX708)
Latch Up	JEDEC JESD78 All pins except PFI input	Pass 300mA Pos, Pass 280mA Neg (MAX708)

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Electrical characterization test data has been obtained on Gresham MAX708 material. No significant changes in part performance as compared to the existing Aizu-sourced product were observed. Cpk's of all critical parameters are greater than 1.67. Data may be provided upon request.

**CHANGED PART IDENTIFICATION:**

Devices with date codes of 2013 work week 21 or later may be sourced from either wafer Gresham or Aizu fab.

**List of affected General Parts:**

MAX708CUA-TG  
MAX708ESA-TG  
MAX708RCUA-TG  
MAX708RESA-TG  
MAX708SCUA-TG  
MAX708SESA-TG  
MAX708TCUA-TG  
MAX708TESA-TG