



UPDATE CHANGE NOTIFICATIONGeneric Copy

19-Mar-2009**SUBJECT: ON Semiconductor Update Notification #16235****TITLE: Wafer Fab Transfer for Devices Currently Qualified at ON Semiconductor Piestany, Slovakia Wafer Fab****PROPOSED FIRST SHIP DATE: 20-Jun-2009****AFFECTED CHANGE CATEGORY(S): ON Semi Fab Site / Subcontractor Fab Site****AFFECTED PRODUCT DIVISION(S): Digital Consumer Group****ADDITIONAL RELIABILITY DATA:** Contact your local ON Semiconductor Sales Office or Edmond Gallard <edmond.gallard@onsemi.com>**SAMPLES:** Contact your local ON Semiconductor Sales Office or Todd Manes <todd.manes@onsemi.com>**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or Todd Manes <todd.manes@onsemi.com>**NOTIFICATION TYPE:**

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 your local ON Semiconductor Sales Office.

DESCRIPTION AND PURPOSE:

This is an Update Notification to Initial PCN # 16223, which announced the qualification of TSMC and Gresham wafer fabs as manufacturing sites for devices currently fabricated at the ON Semiconductor Piestany, Slovakia wafer fab. This Update Notification adds 3 part numbers to the list of affected devices (see affected device list at the end of this notification).

ON Semiconductor is pleased to announce that as a result of the previously announced plans to close the Piestany, Slovakia wafer fabrication facility, devices currently qualified for production at that fab are now being qualified for production at ON Semiconductor's Gresham wafer fab (located in Gresham, Oregon) and/or at TSMC wafer fab in Taiwan.

Upon expiration of the associated Final PCN(s), devices may be supplied from any of the qualified fabrication facilities, including the Piestany fab.

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The Gresham wafer fab is compliant to ISO9001:2000, ISO/TS16949:2002, and ISO14001:2004. TSMC is also compliant to ISO9001:2000, ISO/TS16949:2004 and ISO14001:2004. The products are currently manufactured on the Piestany 0.8um PS5LV process. Devices will be qualified to run at Gresham or TSMC on the 0.25 BCD process. Device performance will be the same among the qualified facilities for each device family. All devices will continue to be assembled and tested in existing, qualified locations. No changes to packaging will occur as a result of this foundry expansion qualification.

QUALIFICATION PLAN:

Full qualification testing will be performed as appropriate on each device family. Reliability testing may include the following (depending upon package and device-specific requirements):

Test

High Temp Op Life (HTOL)
High Temp Storage Life (HTSL)
Pre-Conditioning (PC)
PC + Highly Accelerated Stress Test (PC+HAST)
PC + Unbiased HAST (PC+UHAST)
bias
PC + Temp Cycle (PC+TC)
ESD

Latch Up
PC + SAT
260°C
Wire Bond Shear
Wire Bond Pull
Electrical Distribution

Conditions

150C / 504 hrs
150C / 504 hrs
MSL 1 @ 260°C
131C/85%RH/96 hrs/Bias
130C/85%RH/96 hrs/No

-65C/+150C/500 cyc
Human Body Model /
Machine Model
Dynamic Latch Up
MSL 1 preconditioning @

AEC-Q100-001
AEC-Mil-Std-883 Meth 2011
On Semi spec

Qualifications at Gresham and/or the TSMC fabs will include a full set of reliability testing for the first devices to be qualified there. When sufficient qualification data has been gathered, future product qualifications will reuse qualification data as appropriate. Electrical distribution data will be collected for each part family at each qualified fab.

**Update Notification #16235****AFFECTED DEVICE LIST:**

NCP347MTAETBG
NCP347MTAFTBG
NCP347MTAHTBG
NCP347MTAITBG
NCP348AEMTTBG
NCP348AEMUTBG
NCP348MTTBG
NCP349MNAETBG
NCP360MUTBG
NCP360SNAET1G
NCP360SNAET1GH
NCP360SNAFT1G
NCP360SNAFT1GH
NCP360SNAIT1G
NCP360SNT1G
NCP361MUTBG
NCP361SNT1G
NCP362AMUTBG
NCP362BMUTBG
NCP362CMUTBG
NCP370MUAITXG
NCP372MUAITXG
NCP5021MUTXG
NCP5050MTTXG
NCP5810DMUTXG
NCP5890MUTXG
SUS6160MNTWG *
SUS6160MNTBG *
NUS6160MNTWG *

* = Parts added to the Affected Parts list with this Update Notification.