



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION #16524Generic Copy

Issue Date: 22-Sep-2010**TITLE:** VHVIC 2nd Source Qualification to Gresham FAB**PROPOSED FIRST SHIP DATE:** Q1 2011**AFFECTED CHANGE CATEGORY(S):** Wafer Fab location**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or <Scott.Brow@onsemi.com>**NOTIFICATION TYPE:**

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.

The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN).

This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

The purpose of this initial PCN is to notify customers of the qualification of a second source for our VHVIC wafer technology at ON Semiconductor's wafer fabrication facilities in Gresham, Oregon.

This qualification is being made to increase the capacity for both of this popular technology. This technology is currently produced out of ON Semiconductor's wafer fabrication facilities in Aizu, Japan.

The VHVIC process is being duplicated at the Gresham wafer FAB. No die design changes will occur. No changes to the device performance, data sheets or packaging will be made.

Multiple Final PCN's will be issued over the next 4 to 10 months for the specific families of parts to be dual sourced once the qualification steps are completed. Upon expiration of the associated Final PCN(s), devices may be supplied from either the Aizu FAB or the Gresham FAB.

Device samples will be made available once qualification is completed and the Final PCN is issued for the specific family.



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QUALIFICATION PLAN:

Full qualification testing will be performed on representative devices or groups of devices as necessary to ensure compliance to all existing ON Semiconductor reliability requirements. Specific plans and qualification results for each device family will be announced via individual Final PCN's as those qualifications are achieved.

Reliability testing for each qualification vehicle may include the following:

Test	Ref	Test Condition	Duration	Sample Size	# of Lots
High Temperature Bake (HTB)	J103	T _A = 150°C	1008hrs	80	3
High Temperature Operation Life (HTOL)	JA108	T _A = 125°C @ Bias	1008hrs	80	3
Preconditioning (PC)	JA112 J113	MSL1 or MSL3	N/A	80	3
Preconditioned Autoclave (PC-AC)	JA106	T _A = 121°C RH = 100%	96hrs	80	3
Preconditioned Highly Accelerated Stress Test (PC-HAST)	JA101 JA110	T _A = 130°C RH = 85%	96hrs	80	3
Preconditioned Unbiased Highly Accelerated Stress Test (PC-UHAST)	JA118	T _A = 130°C RH = 85%	96hrs	80	3
Preconditioned Temperature Cycle (PC-TC)	JA104	-65°C to +150°C	500 cycles	80	3
Electro-static Discharge (ESD)		HBM, MM and CDM		3units / Voltage Level	1
Latch-up (LU)		Dynamic Latch-up		6	1
Electrical Distribution (ED)		ON Semi Spec		35	3

Qualifications at the Gresham wafer FAB 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.



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List of affected General Parts:

PARTS		
MC33363ADWG	NCP1053P136G	NCP1308DR2G
MC33363ADWR2G	NCP1053P44G	NCP1337DR2G
MC33363BDWG	NCP1053ST100T3G	NCP1337PG
MC33363BDWR2G	NCP1053ST136T3G	NCP1338DR2G
MC33364D1G	NCP1053ST44T3G	NCP1351ADR2G
MC33364D1R2G	NCP1054P100G	NCP1351APG
MC33364D2G	NCP1054P136G	NCP1351BDR2G
MC33364D2R2G	NCP1054P44G	NCP1351BPG
MC33364DG	NCP1054ST100T3G	NCP1351CDR2G
MC33364DR2G	NCP1054ST136T3G	NCP1351CPG
MC33368DG	NCP1054ST44T3G	NCP1351DDR2G
MC33368DR2G	NCP1055P100G	NCP1351DPG
NCL30000DR2G	NCP1055P136G	NCP1377BD1R2G
NCL30001DR2G	NCP1055P44G	NCP1377BDR2G
NCL30100SNT1G	NCP1055ST100T3G	NCP1377BPG
NCP1010AP065G	NCP1055ST136T3G	NCP1377D1R2G
NCP1010AP100G	NCP1055ST44T3G	NCP1377DR2G
NCP1010AP130G	NCP1200D100R2G	NCP1377PG
NCP1010ST100T3G	NCP1200D40R2G	NCP1379DR2G
NCP1010ST130T3G	NCP1200D60R2G	NCP1380ADR2G
NCP1010ST65T3G	NCP1200P100G	NCP1380BDR2G
NCP1011AP065G	NCP1200P40G	NCP1380CDR2G
NCP1011AP100G	NCP1200P60G	NCP1380DDR2G
NCP1011AP130G	NCP1203D100R2G	NCP1381DR2G
NCP1011APL065R2G	NCP1203D40R2G	NCP1382DR2G
NCP1011APL130R2G	NCP1203D60R2G	NCP1392BDR2G
NCP1011ST100T3G	NCP1203P100G	NCP1393BDR2G
NCP1011ST130T3G	NCP1203P40G	NCP1395ADR2G
NCP1011ST65T3G	NCP1203P60G	NCP1395APG
NCP1012AP065G	NCP1207ADR2G	NCP1395BDR2G
NCP1012AP100G	NCP1207APG	NCP1395BPG
NCP1012AP133G	NCP1207BDR2G	NCP1397ADR2G
NCP1012APL065R2G	NCP1216AD100R2G	NCP1397BDR2G
NCP1012APL100R2G	NCP1216AD133R2G	NCP1562ADBR2G
NCP1012APL130R2G	NCP1216AD65R2G	NCP1562ADR2G
NCP1012ST100T3G	NCP1216AP100G	NCP1562BDBR2G
NCP1012ST130T3G	NCP1216AP133G	NCP1562BDR2G
NCP1012ST65T3G	NCP1216AP65G	NCP1601ADR2G
NCP1013AP065G	NCP1216D100R2G	NCP1601APG
NCP1013AP100G	NCP1216D133R2G	NCP1601BDR2G
NCP1013AP133G	NCP1216D65R2G	NCP1601BPG
NCP1013ST100T3G	NCP1216P100G	NCP1605ADR2G
NCP1013ST130T3G	NCP1216P133G	NCP1605DR2G
NCP1013ST65T3G	NCP1216P65G	NCP1606ADR2G
NCP1014AP065G	NCP1217AD100R2G	NCP1606APG



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PARTS		
NCP1014AP100G	NCP1217AD133R2G	NCP1606BDR2G
NCP1014APL065R2G	NCP1217AD65R2G	NCP1606BPG
NCP1014APL100R2G	NCP1217AP100G	NCP1607BDR2G
NCP1014ST100T3G	NCP1217AP133G	NCP1631DR2G
NCP1014ST65T3G	NCP1217AP65G	NCP1650DR2G
NCP1015AP065G	NCP1217D100R2G	NCP1651DR2G
NCP1015AP100G	NCP1217D133R2G	NCP1652ADR2G
NCP1015ST100T3G	NCP1217D65R2G	NCP1652DR2G
NCP1015ST65T3G	NCP1217P100G	NCP1652DWR2G
NCP1027P065G	NCP1217P133G	NCP1653ADR2G
NCP1027P100G	NCP1217P65G	NCP1653APG
NCP1028P065G	NCP1218AD65R2G	NCP1653DR2G
NCP1028P100G	NCP1219AD100R2G	NCP1653PG
NCP1050P100G	NCP1219AD65R2G	NCP1654BD133R2G
NCP1050P136G	NCP1219BD100R2G	NCP1654BD200R2G
NCP1050P44G	NCP1219BD65R2G	NCP1654BD65R2G
NCP1050ST100T3G	NCP1230D100R2G	NCP4303ADR2G
NCP1050ST136T3G	NCP1230D133R2G	NCP4303BDR2G
NCP1050ST44T3G	NCP1230D165R2G	NCP5104DR2G
NCP1051P100G	NCP1230D65R2G	NCP5104PG
NCP1051P136G	NCP1230P100G	NCP5106ADR2G
NCP1051P44G	NCP1230P133G	NCP5106APG
NCP1051ST100T3G	NCP1230P65G	NCP5106BDR2G
NCP1051ST136T3G	NCP1237AD65R2G	NCP5106BPG
NCP1051ST44T3G	NCP1237BD65R2G	NCP5111DR2G
NCP1052P100G	NCP1238AD65R2G	NCP5111PG
NCP1052P136G	NCP1238BD65R2G	NCP5304DR2G
NCP1052P44G	NCP1252ADR2G	NCP5304PG
NCP1052ST100T3G	NCP1252BDR2G	SCY99074DR2G
NCP1052ST136T3G	NCP1252CDR2G	SCY99077DR2G
NCP1052ST44T3G	NCP1282BDR2G	SCY99086BDR2G
NCP1053P100G	NCP1288BD65R2G	