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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16622B**

Generic Copy

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**Issue Date:** 30-Jan-2012

**TITLE:** Capacity expansion for SOIC14-16 Copper Wire Products into ASE Kunshan, China

**PROPOSED FIRST SHIP DATE:** 30-Apr-2012

**AFFECTED CHANGE CATEGORY(S):** Subcontractor Assembly Site, Subcontractor Test Site

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or <Won.Kang@onsemi.com>

**SAMPLES:** Contact your local ON Semiconductor Sales Office

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or <Lakshmi.Kari@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>.

**DESCRIPTION AND PURPOSE:**

As previously announced in initial PCN #16622, published April 7, 2011, ON Semiconductor is qualifying additional assembly and test manufacturing capacity for SOIC 14-16 products assembled with copper wire in ASE Kunshan, China (ASEKS). This FPCN provides the SOIC 14-16 assembly capacity expansion details pertinent to the high voltage parts and metal gate parts.



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**RELIABILITY DATA SUMMARY:**

**Qualification Vehicle:** MC74HC165ADR2G

**Package:** SOIC 16L

**Qualification Results and Analysis:**

<b>Test:</b>	<b>Conditions:</b>	<b>Interval:</b>	<b>Results</b>
PC –HAST	TA= +130°C, RH = 85%, PSIG= 18.8	96 Hrs	0/240
PC-TC	-65/+150 C	500 Cycles	0/240
PC-AC	121C/100%RH,15psig	96 Hrs	0/240
HTSL	TA=150C	1008 Hrs	0/240
HTOL	TA=150C	504 Hrs	0/240
Solderability	>95% coverage		0/45

**Qualification Vehicle:** MC14051BDR2G

**Package:** SOIC 16L

**Qualification Results and Analysis:**

<b>Test:</b>	<b>Conditions:</b>	<b>Interval:</b>	<b>Results</b>
PC –HAST	TA= +130°C, RH = 85%, PSIG= 18.8	96 Hrs	0/240
PC-TC	-65/+150 C	500 Cycles	0/240
PC-AC	121C/100%RH,15psig	96 Hrs	0/240
HTSL	TA=150C	1008 Hrs	0/240
HTOL	TA=150C	504 Hrs	0/240
Solderability	>95% coverage		0/45

**ELECTRICAL CHARACTERISTIC SUMMARY:**

Product performance continues to meet datasheet specifications.

**CHANGED PART IDENTIFICATION:**

Upon expiration of this notification devices may be shipped from any qualified manufacturing location. Manufacturing traceability will be maintained to allow identification of the assembly source.



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**List of affected General Parts:**

MC74HC4051ADG	MC14012BDG	MC14027BDR2G	MC14060BDG
MC74HC4052ADG	MC14012BDR2G	MC14028BDG	MC14060BDR2G
MC74HC4053ADR2G	MC14013BDG	MC14028BDR2G	MC14066BDG
MC74HC4066ADR2G	MC14013BDR2G	MC14029BDR2G	MC14066BDR2G
MC74HC4051ADR2G	MC14014BDG	MC14040BDG	MC14069UBDG
MC74HC4052ADR2G	MC14014BDR2G	MC14040BDR2G	MC14069UBDR2G
MC74VHC4053DR2G	MC14015BDG	MC14042BDG	MC14070BDG
MC74VHC4066DR2G	MC14015BDR2G	MC14042BDR2G	MC14070BDR2G
MC74HC4051ADR2H	MC14016BDG	MC14043BDG	MC14071BDG
MC74VHC4052DR2G	MC14016BDR2G	MC14043BDR2G	MC14071BDR2G
MC74HCT4051ADR2G	MC14017BDG	MC14044BDG	MC14073BDG
MC74VHC4316DR2G	MC14017BDR2G	MC14044BDR2G	MC14073BDR2G
MC74VHC4051DR2G	MC14018BDG	MC14049BDG	MC14076BDG
MC74HC4053ADG	MC14018BDR2G	MC14049BDR2G	MC14076BDR2G
MC74HC4066ADG	MC14020BDG	MC14049UBDG	MC14077BDG
MC14001BDG	MC14020BDR2G	MC14049UBDR2G	MC14077BDR2G
MC14001BDR2G	MC14021BDG	MC14050BDG	MC14081BDG
MC14001UBDG	MC14021BDR2G	MC14050BDR2G	MC14081BDR2G
MC14001UBDR2G	MC14022BDG	MC14051BDG	MC14082BDG
MC14007UBDG	MC14022BDR2G	MC14051BDR2G	MC14082BDR2G
MC14007UBDR2G	MC14023BDG	MC14051BDR2H	MC14093BDG
MC14008BDR2G	MC14023BDR2G	MC14052BDG	MC14093BDR2G
MC14011BDG	MC14024BDG	MC14052BDR2G	MC14094BDG
MC14011BDR2G	MC14024BDR2G	MC14052BDR2GH	MC14094BDR2G
MC14011BDR2GH	MC14025BDG	MC14053BDG	MC14106BDG
MC14011UBDG	MC14025BDR2G	MC14053BDR2G	MC14106BDR2G
MC14011UBDR2G	MC14027BDG	MC14053BDR2H	MC14174BDR2G
MC14175BDG	MC14504BDR2G	MC14516BDG	MC14528BDR2G
MC14175BDR2G	MC14511BDG	MC14516BDR2G	MC14532BDG
MC14503BDG	MC14511BDR2G	MC14521BDG	MC14532BDR2G
MC14503BDR2G	MC14512BDG	MC14521BDR2G	MC14538BDG
MC14504BDG	MC14512BDR2G	MC14528BDG	MC14538BDR2G
MC14541BDG	MC14551BDR2G	MC14572UBDR2G	
MC14541BDR2G	MC14555BDG	MC14584BDG	
MC14543BDG	MC14555BDR2G	MC14584BDR2G	
MC14543BDR2G	MC14556BDR2G	MC14585BDG	
MC14551BDG	MC14572UBDG	MC14585BDR2G	