



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16622A

Generic Copy

Issue Date: 12-Dec-2011

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

PROPOSED FIRST SHIP DATE: 12-Mar-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 is the final PCN providing the details pertinent to the change. This change represents capacity expansion, and upon expiration of the PCN product may be sourced from ASEKS, or any of the previously approved manufacturing locations.

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16622A****RELIABILITY DATA SUMMARY:****Qualification Vehicle:** MC74HC165ADR2G**Package:** SOIC 16L**Qualification Results and Analysis:**

| Test: | Conditions: | Interval: | Results |
|---------------|----------------------------------|------------------|----------------|
| 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:

| | | | |
|----------------|----------------|-----------------|------------------|
| MC74HC00ADG | MC74HC153ADR2G | MC74HC368ADR2G | MC74HCT08ADR2G |
| MC74HC00ADR2G | MC74HC157ADG | MC74HC390ADG | MC74HCT08ADR2H |
| MC74HC02ADG | MC74HC157ADR2G | MC74HC390ADR2G | MC74HCT125ADG |
| MC74HC02ADR2G | MC74HC160ADG | MC74HC393ADG | MC74HCT125ADR2G |
| MC74HC03ADG | MC74HC160ADR2G | MC74HC393ADR2G | MC74HCT132ADG |
| MC74HC03ADR2G | MC74HC161ADG | MC74HC4020ADG | MC74HCT132ADR2G |
| MC74HC04ADG | MC74HC161ADR2G | MC74HC4020ADR2G | MC74HCT138ADG |
| MC74HC04ADR2G | MC74HC163ADG | MC74HC4040ADG | MC74HCT138ADR2G |
| MC74HC05ADG | MC74HC163ADR2G | MC74HC4040ADR2G | MC74HCT14ADG |
| MC74HC05ADR2G | MC74HC164ADG | MC74HC4094ADG | MC74HCT14ADR2G |
| MC74HC08ADG | MC74HC164ADR2G | MC74HC4094ADR2G | MC74HCT14ADR2GH |
| MC74HC08ADR2G | MC74HC165ADG | MC74HC4316ADR2G | MC74HCT20ADG |
| MC74HC10ADG | MC74HC165ADR2G | MC74HC4538ADG | MC74HCT20ADR2G |
| MC74HC10ADR2G | MC74HC174ADG | MC74HC4538ADR2G | MC74HCT259ADG |
| MC74HC112ADG | MC74HC174ADR2G | MC74HC4851ADG | MC74HCT259ADR2G |
| MC74HC112ADR2G | MC74HC175ADG | MC74HC4851ADR2G | MC74HCT32ADG |
| MC74HC11ADG | MC74HC175ADR2G | MC74HC4852ADG | MC74HCT32ADR2G |
| MC74HC11ADR2G | MC74HC20ADG | MC74HC4852ADR2G | MC74HCT365ADG |
| MC74HC125ADG | MC74HC20ADR2G | MC74HC589ADG | MC74HCT365ADR2G |
| MC74HC125ADR2G | MC74HC238ADG | MC74HC589ADR2G | MC74HCT366ADG |
| MC74HC126ADG | MC74HC238ADR2G | MC74HC595ADG | MC74HCT366ADR2G |
| MC74HC126ADR2G | MC74HC251ADG | MC74HC595ADH | MC74HCT4094ADG |
| MC74HC132ADG | MC74HC251ADR2G | MC74HC595ADR2G | MC74HCT4094ADR2G |
| MC74HC132ADR2G | MC74HC259ADG | MC74HC595ADR2H | MC74HCT4851ADG |
| MC74HC138ADG | MC74HC259ADR2G | MC74HC597ADG | MC74HCT4851ADR2G |
| MC74HC138ADR2G | MC74HC30ADG | MC74HC597ADR2G | MC74HCT4852ADG |
| MC74HC139ADG | MC74HC30ADR2G | MC74HC73ADG | MC74HCT4852ADR2G |
| MC74HC139ADR2G | MC74HC32ADG | MC74HC73ADR2G | MC74HCT595ADG |
| MC74HC139ADR2H | MC74HC32ADR2G | MC74HC74ADG | MC74HCT595ADR2G |
| MC74HC14ADG | MC74HC365ADG | MC74HC74ADR2G | MC74HCT74ADG |
| MC74HC14ADR2G | MC74HC365ADR2G | MC74HC86ADG | MC74HCT74ADR2G |
| MC74HC151ADG | MC74HC367ADG | MC74HC86ADR2G | MC74HCT86ADG |
| MC74HC151ADR2G | MC74HC367ADR2G | MC74HCT04ADG | MC74HCT86ADR2G |
| MC74HC153ADG | MC74HC368ADG | MC74HCT04ADR2G | MC74HCU04ADG |
| | | MC74HCT08ADG | MC74HCU04ADR2G |