



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION

Generic Copy

08-Apr-2009

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #16242

TITLE: Initial Notification for Transfer of Products from MOS9 Wafer Fab (East Kilbride, Scotland) to CZ4 Wafer Fab (Roznov, Czech Republic).

PROPOSED FIRST SHIP DATE: 08-Aug-2009

AFFECTED CHANGE CATEGORY: ON Semiconductor Wafer Fab Site

AFFECTED PRODUCT DIVISION: Emitter-Coupled Logic (ECL) E-Plus Translators

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Eric Rupnow <e.rupnow@onsemi.com>

SAMPLE AVAILABILITY: Samples will be available at the beginning of July 2009

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:

MOS9 wafer fab will no longer support the fabrication of the E-Plus ECL translators. In order to continue to support our customer's requirements for E-Plus ECL Translator products, the fabrication of these devices is being moved from current wafer fab, MOS9 in East Kilbride Scotland, to ON Semiconductor's wafer fab, CZ4 in Roznov Czech Republic.

**Initial Product/Process Change Notification #16242****QUALIFICATION PLAN:**

Reliability testing will be performed on qualification vehicle chosen based on die size, voltage rating, and run rates.

Extrinsic Reliability

1. High Temp Op Life	1 lot/	1008 hrs. (FIT < 1000)
2. High Temp Storage (150 °C)	1 lot/80 units	504 hrs.
3. Pre-Conditioning MSL1 260	1 lot/80 units	
4. HAST (130°C/85%RH)	1 lot/80 units	96 hrs.
5. Autoclave (121°C/100%RH/15PSIG)	1 lot/80 units	96 hrs.
6. Temp Cycling (-65 °C to +150 °C)	1 lot/80 units	500 cycles
8. ESD - Human Body Model	1 lot/3 units	2000 V minimum
9. ESD - Machine Model	1 lot/3 units	200 V minimum
10.Latch-Up	1 lot/6 units	JESD78 Minimum
11.SAT (Pre-condition 260 C, MSL 1	1 lot/5 units	



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AFFECTED DEVICE LIST:

- MC100EPT21D
- MC100EPT21DG
- MC100EPT21DR2
- MC100EPT21DR2G
- MC100EPT21DT
- MC100EPT21DTG
- MC100EPT21DTR2
- MC100EPT21DTR2G
- MC100EPT21MNR4
- MC100EPT21MNR4G
- MC100EPT23D
- MC100EPT23DG
- MC100EPT23DR2
- MC100EPT23DR2G
- MC100EPT23DT
- MC100EPT23DTG
- MC100EPT23DTR2
- MC100EPT23DTR2G
- MC100EPT23MNR4
- MC100EPT23MNR4G
- MC100EPT26D
- MC100EPT26DG
- MC100EPT26DR2
- MC100EPT26DR2G
- MC100EPT26DT
- MC100EPT26DTG
- MC100EPT26DTR2
- MC100EPT26DTR2G
- MC100EPT26MNR4
- MC100EPT26MNR4G
- MC100LVELT23D
- MC100LVELT23DG
- MC100LVELT23DR2
- MC100LVELT23DR2G
- MC100LVELT23DT
- MC100LVELT23DTG
- MC100LVELT23DTR2
- MC100LVELT23DTRG
- MC100LVELT23MNRG
- NB100ELT23LD
- NB100ELT23LDG
- NB100ELT23LDR2
- NB100ELT23LDR2G
- NB100ELT23LDT
- NB100ELT23LDTG
- NB100ELT23LDTR2
- NB100ELT23LDTR2G