

ON Semiconductor
Formerly a Division of Motorola



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4882

TITLE: LCX PROCESS FLOW CHANGE

EFFECTIVE DATE: 04-NOV-99

AFFECTED CHANGE CATEGORIES

Subcontractor Fab Site

Wafer Process

AFFECTED PRODUCT DIVISIONS

GENERAL PURPOSE PRO

ADDITIONAL RELIABILITY DATA: Available
Contact your local Motorola Sales Office.

Ref: R23864

SAMPLES: Contact Below
Contact your local Motorola Sales Office.

Ref: R24697@email.sps.mot.com

For any questions concerning this notification:

REFERENCE: DIANNE VON BORSTEL

PHONE: 602-244-6252

DISCLAIMER:

MOTOROLA 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 MOTOROLA SALES
OFFICE.

GPCN FORMAT: CUSTOMER

DO NOT REPLY TO THIS MESSAGE.

PRODUCT AND PROCESS CHANGE NOTIFICATION

ISSUE DATE: 26-Jul-1999

NOTIFICATION #:4882

EFFECTIVE DATE: 04-Nov-1999

ISSUING DIVISION:PHX-GPPD

DESCRIPTION AND PURPOSE

LCX Logic wafers being fabricated at Charter Semiconductor in Singapore, will have the Epitaxial Layer and a Vthreshold adjust Step removed in the present process flow. The circuit design, layout and dimensions are not altered in this change. The EPI layer is used for Latchup prevention and Vth adjust was used for leakage containment in the OVT circuitry. These steps were originally carried over from an earlier process flow in MOS6 fab, and are considered not necessary on CSM design rules. The removal of these 2 steps have been electrically evaluated on another family and shown not to alter the characteristics of the device.

QUALIFICATION PLAN

Process qualification point 7/9/99. Data is being taken on part number MC74LVX4066. This part has similar OVT structure and design rules as the LCX family.

RELIABILITY DATA SUMMARY

Data is being taken on part number MC74LVX4066.

ELECTRICAL CHARACTERISTIC SUMMARY

Electrical Characterization completion planned for 8/2/99. Device is MC74LCX244DW.

CHANGED PART IDENTIFICATION

No changes to the form, fit or marking of these devices.

Devices with this change will be available starting with date code 9941.

FILE FORMAT: ASCII TEXT

FONT - Courier

SIZE - 12 Point

LINE - 70 characters/line

PAGE - 55 lines/page

PAGEBREAK CHARACTER - ^L (Control L)

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

MC74LCX00D	,	MC74LCX00DR2	,	MC74LCX00DT	,	MC74LCX00DTEL
MC74LCX00DTR2	,	MC74LCX00M	,	MC74LCX00MEL	,	MC74LCX02D
MC74LCX02DR2	,	MC74LCX02DT	,	MC74LCX02DTEL	,	MC74LCX02DTR2
MC74LCX02M	,	MC74LCX02MEL	,	MC74LCX04D	,	MC74LCX04DR2
MC74LCX04DT	,	MC74LCX04DTEL	,	MC74LCX04DTR2	,	MC74LCX04M
MC74LCX04MEL	,	MC74LCX08D	,	MC74LCX08DR2	,	MC74LCX08DT
MC74LCX08DTEL	,	MC74LCX08DTR2	,	MC74LCX08M	,	MC74LCX08MEL
MC74LCX125D	,	MC74LCX125DR2	,	MC74LCX125DT	,	MC74LCX125DTEL
MC74LCX125DTR2	,	MC74LCX125M	,	MC74LCX125MEL	,	MC74LCX16240DT
MC74LCX16240DTR2	,	MC74LCX16244DT	,	MC74LCX16244DTR2	,	MC74LCX16245DT
MC74LCX16245DTR2	,	MC74LCX16373DT	,	MC74LCX16373DTR2	,	MC74LCX16374DT
MC74LCX16374DTR2	,	MC74LCX240DT	,	MC74LCX240DTR2	,	MC74LCX240DW
MC74LCX240DWR2	,	MC74LCX240M	,	MC74LCX240MEL	,	MC74LCX244DT
MC74LCX244DTEL	,	MC74LCX244DTR2	,	MC74LCX244DW	,	MC74LCX244DWR2
MC74LCX244M	,	MC74LCX244MEL	,	MC74LCX245DT	,	MC74LCX245DTEL
MC74LCX245DTR2	,	MC74LCX245DW	,	MC74LCX245DWR2	,	MC74LCX245M
MC74LCX245MEL	,	MC74LCX32D	,	MC74LCX32DR2	,	MC74LCX32DT
MC74LCX32DTEL	,	MC74LCX32DTR2	,	MC74LCX32M	,	MC74LCX32MEL
MC74LCX540DT	,	MC74LCX540DW	,	MC74LCX540DWR2	,	MC74LCX540M
MC74LCX540MEL	,	MC74LCX541DT	,	MC74LCX541DTEL	,	MC74LCX541DTR2
MC74LCX541DW	,	MC74LCX541DWR2	,	MC74LCX541M	,	MC74LCX541MEL
MC74LCX74D	,	MC74LCX74DR2	,	MC74LCX74DT	,	MC74LCX74DTR2
MC74LCX74M	,	MC74LCX74MEL	,	MC74LCX74ML1	,	MC74LCX74ML2
MC74LCX86D	,	MC74LCX86DR2	,	MC74LCX86DT	,	MC74LCX86DTR2
MC74LVX4245DT	,	MC74LVX4245DTR2	,	MC74LVX4245DW	,	MC74LVX4245DWR2
MC74LVXC3245DT	,	MC74LVXC3245DTR2	,	MC74LVXC3245DW	,	MC74LVXC3245DWR2
PC74LVX4245DT	,	PC74LVX4245DW	,	PC74LVXC3245DT	,	PC74LVXC3245DW
SCWWF71W51244B	,	SCWWF94D51244C	,	SCWWF94D51541A	,	SCWWG55J5000A
SCWWG55J5008A	,	SCWWG55J5032A	,	SCWWG56J51125B	,	SCWWG65J5074A
SCWWJ73A50C3245A	,	TSC74LCX244DTR2				