

ON Semiconductor
Formerly a Division of Motorola



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4884

TITLE: ADDITION OF CHARTERED SEMICONDUCTOR AS A QUALIFIED WAFER
FABRICATION SITE FOR VHC AND LVX DEVICES

EFFECTIVE DATE: 09-OCT-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: DOUGLAS BUZARD PHONE: 602-244-3126

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.

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ISSUING DIVISION:PHX-GPPD

DESCRIPTION AND PURPOSE

Motorola SCG is pleased to announce the addition of Chartered Semiconductor Manufacturing (CSM) for wafer fabrication of VHC and LVX devices. The VHC and LVX devices will be changed from a modified 1.0 micron, Toshiba C2MOS two layer metal process on 125mm wafers manufactured in Oita, Japan, to the Chartered Semiconductor 0.6 micron CMOS two layer metal process on 150mm wafers manufactured in Singapore.

The VHC and LVX new design/layout devices will replace the existing designs, which will no longer be available. Chartered Semiconductor, and Chartered Semiconductor's Fab 1 are located in Singapore.

QUALIFICATION PLAN

Process qualification point 6/30/99.

MC74LVX4066 has already passed all qualification readouts, and MC74LVX4053 is scheduled to complete its qualification readouts on 6/30/99. The LVX and VHC devices run on the same process.

RELIABILITY DATA SUMMARY

Available upon request.

ELECTRICAL CHARACTERISTIC SUMMARY

Available upon request.

The Characteristics Specification for the new devices will remain unchanged to the previous design/layout. There may be some differences in Typical AC Characteristics propagation delays, with many of the Typical delays becoming smaller. Changes to Typical AC values will be reflected in revised versions of the datasheets at the time a particular device is made available for sampling.

CHANGED PART IDENTIFICATION

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

FILE FORMAT: ASCII TEXT

FONT - Courier

SIZE - 12 Point

LINE - 70 characters/line

PAGE - 55 lines/page

PAGEBREAK CHARACTER - ^L (Control L)

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AFFECTED DEVICE LIST (WITHOUT SPECIALS)

MC74LVX00D	, MC74LVX00DR2	, MC74LVX00DT	, MC74LVX00DTR2
MC74LVX02D	, MC74LVX02DR2	, MC74LVX02DT	, MC74LVX02DTR2
MC74LVX04D	, MC74LVX04DR2	, MC74LVX04DT	, MC74LVX04DTR2
MC74LVX08D	, MC74LVX08DR2	, MC74LVX08DT	, MC74LVX08DTR2
MC74LVX125D	, MC74LVX125DR2	, MC74LVX125DT	, MC74LVX125DTR2
MC74LVX126D	, MC74LVX126DR2	, MC74LVX126DT	, MC74LVX126DTR2
MC74LVX126N	, MC74LVX126SD	, MC74LVX126SDR2	, MC74LVX132D
MC74LVX132DR2	, MC74LVX132DT	, MC74LVX132DTR2	, MC74LVX132N
MC74LVX132SD	, MC74LVX132SDR2	, MC74LVX138D	, MC74LVX138DR2
MC74LVX138DT	, MC74LVX138DTR2	, MC74LVX139D	, MC74LVX139DR2
MC74LVX139DT	, MC74LVX139DTR2	, MC74LVX139N	, MC74LVX139SD
MC74LVX139SDR2	, MC74LVX14D	, MC74LVX14DR2	, MC74LVX14DT
MC74LVX14DTR2	, MC74LVX157D	, MC74LVX157DR2	, MC74LVX157DT
MC74LVX157DTR2	, MC74LVX240DT	, MC74LVX240DTR2	, MC74LVX240DW
MC74LVX240DWR2	, MC74LVX244DT	, MC74LVX244DTR2	, MC74LVX244DW
MC74LVX244DWR2	, MC74LVX245DT	, MC74LVX245DTR2	, MC74LVX245DW
MC74LVX245DWR2	, MC74LVX32D	, MC74LVX32DR2	, MC74LVX32DT
MC74LVX32DTR2	, MC74LVX373DT	, MC74LVX373DTR2	, MC74LVX373DW
MC74LVX373DWR2	, MC74LVX374DT	, MC74LVX374DTR2	, MC74LVX374DW
MC74LVX374DWR2	, MC74LVX390D	, MC74LVX390DR2	, MC74LVX390DT
MC74LVX390DTR2	, MC74LVX390N	, MC74LVX390SD	, MC74LVX390SDR2
MC74LVX393D	, MC74LVX393DR2	, MC74LVX393DT	, MC74LVX393DTR2
MC74LVX393N	, MC74LVX393SD	, MC74LVX393SDR2	, MC74LVX540DT
MC74LVX540DTR2	, MC74LVX540DW	, MC74LVX540DWR2	, MC74LVX540N
MC74LVX540SD	, MC74LVX540SDR2	, MC74LVX541DT	, MC74LVX541DTR2
MC74LVX541DW	, MC74LVX541DWR2	, MC74LVX541N	, MC74LVX541SD
MC74LVX541SDR2	, MC74LVX573DT	, MC74LVX573DTR2	, MC74LVX573DW
MC74LVX573DWR2	, MC74LVX574DT	, MC74LVX574DTR2	, MC74LVX574DW
MC74LVX574DWR2	, MC74LVX574N	, MC74LVX574SD	, MC74LVX574SDR2
MC74LVX595D	, MC74LVX595DR2	, MC74LVX595DT	, MC74LVX595DTR2
MC74LVX595N	, MC74LVX595SD	, MC74LVX595SDR2	, MC74LVX74D
MC74LVX74DR2	, MC74LVX74DT	, MC74LVX74DTR2	, MC74LVX86D
MC74LVX86DR2	, MC74LVX86DT	, MC74LVX86DTR2	, MC74VHC00D
MC74VHC00DR2	, MC74VHC00DT	, MC74VHC00DTR2	, MC74VHC00M
MC74VHC00MEL	, MC74VHC00ML1	, MC74VHC00ML2	, MC74VHC00TEL
MC74VHC02D	, MC74VHC02DR2	, MC74VHC02DT	, MC74VHC02DTR2
MC74VHC02M	, MC74VHC02MEL	, MC74VHC02ML1	, MC74VHC02ML2
MC74VHC04D	, MC74VHC04DR2	, MC74VHC04DT	, MC74VHC04DTR2
MC74VHC04M	, MC74VHC04MEL	, MC74VHC04ML1	, MC74VHC04ML2
MC74VHC08D	, MC74VHC08DR2	, MC74VHC08DT	, MC74VHC08DTR2
MC74VHC08M	, MC74VHC08MEL	, MC74VHC08ML1	, MC74VHC08ML2
MC74VHC125D	, MC74VHC125DR2	, MC74VHC125DT	, MC74VHC125DTR2
MC74VHC125M	, MC74VHC125MEL	, MC74VHC125ML1	, MC74VHC125ML2
MC74VHC126D	, MC74VHC126DR2	, MC74VHC126DT	, MC74VHC126DTR2

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MC74VHC126M	, MC74VHC126MEL	, MC74VHC126ML1	, MC74VHC126ML2
MC74VHC132D	, MC74VHC132DR2	, MC74VHC132DT	, MC74VHC132DTR2
MC74VHC132M	, MC74VHC132MEL	, MC74VHC132ML1	, MC74VHC132ML2
MC74VHC138D	, MC74VHC138DR2	, MC74VHC138DT	, MC74VHC138DTR2
MC74VHC138M	, MC74VHC138MEL	, MC74VHC138ML1	, MC74VHC138ML2
MC74VHC139D	, MC74VHC139DR2	, MC74VHC139DT	, MC74VHC139DTR2
MC74VHC139M	, MC74VHC139MEL	, MC74VHC139ML1	, MC74VHC139ML2
MC74VHC14D	, MC74VHC14DR2	, MC74VHC14DT	, MC74VHC14DTR2
MC74VHC14M	, MC74VHC14MEL	, MC74VHC14ML1	, MC74VHC14ML2
MC74VHC14N	, MC74VHC14SD	, MC74VHC14SDR2	, MC74VHC157D
MC74VHC157DR2	, MC74VHC157DT	, MC74VHC157DTR2	, MC74VHC157M
MC74VHC157MEL	, MC74VHC157ML1	, MC74VHC157ML2	, MC74VHC16244DT
MC74VHC16244DTR2	, MC74VHC1G00DFT1	, MC74VHC1G04DFT1	, MC74VHC1G66DFR2
MC74VHC1G66DFT1	, MC74VHC1GT04DFT1	, MC74VHC1GT50DFT1	, MC74VHC1GT66DFR2
MC74VHC1GT66DFT1	, MC74VHC1GU04DFT1	, MC74VHC240DT	, MC74VHC240DTR2
MC74VHC240DW	, MC74VHC240DWR2	, MC74VHC240M	, MC74VHC240MEL
MC74VHC240ML1	, MC74VHC240ML2	, MC74VHC244DT	, MC74VHC244DTR2
MC74VHC244DW	, MC74VHC244DWR2	, MC74VHC244M	, MC74VHC244MEL
MC74VHC244ML1	, MC74VHC244ML2	, MC74VHC245DT	, MC74VHC245DTR2
MC74VHC245DW	, MC74VHC245DWR2	, MC74VHC245M	, MC74VHC245MEL
MC74VHC245ML1	, MC74VHC245ML2	, MC74VHC32D	, MC74VHC32DR2
MC74VHC32DT	, MC74VHC32DTR2	, MC74VHC32M	, MC74VHC32MEL
MC74VHC32ML1	, MC74VHC32ML2	, MC74VHC373DT	, MC74VHC373DTR2
MC74VHC373DW	, MC74VHC373DWR2	, MC74VHC373M	, MC74VHC373MEL
MC74VHC373ML1	, MC74VHC373ML2	, MC74VHC374DT	, MC74VHC374DTR2
MC74VHC374DW	, MC74VHC374DWR2	, MC74VHC374M	, MC74VHC374MEL
MC74VHC374ML1	, MC74VHC374ML2	, MC74VHC390D	, MC74VHC390DR2
MC74VHC390DT	, MC74VHC390DTR2	, MC74VHC390N	, MC74VHC390SD
MC74VHC390SDR2	, MC74VHC393D	, MC74VHC393DR2	, MC74VHC393DT
MC74VHC393DTR2	, MC74VHC393M	, MC74VHC393MEL	, MC74VHC393ML1
MC74VHC393ML2	, MC74VHC4051D	, MC74VHC4051DR2	, MC74VHC4051DT
MC74VHC4051DTR2	, MC74VHC4052D	, MC74VHC4052DR2	, MC74VHC4052DT
MC74VHC4052DTR2	, MC74VHC4053D	, MC74VHC4053DR2	, MC74VHC4053DT
MC74VHC4053DTR2	, MC74VHC4066D	, MC74VHC4066DR2	, MC74VHC4066DT
MC74VHC4066DTR2	, MC74VHC4538D	, MC74VHC4538DR2	, MC74VHC4538DT
MC74VHC4538DTR2	, MC74VHC540DT	, MC74VHC540DTR2	, MC74VHC540DW
MC74VHC540DWR2	, MC74VHC540M	, MC74VHC540MEL	, MC74VHC540ML1
MC74VHC540ML2	, MC74VHC541DT	, MC74VHC541DTR2	, MC74VHC541DW
MC74VHC541DWR2	, MC74VHC541M	, MC74VHC541MEL	, MC74VHC541ML1
MC74VHC541ML2	, MC74VHC573DT	, MC74VHC573DTR2	, MC74VHC573DW
MC74VHC573DWR2	, MC74VHC573M	, MC74VHC573MEL	, MC74VHC573ML1
MC74VHC573ML2	, MC74VHC574DT	, MC74VHC574DTR2	, MC74VHC574DW
MC74VHC574DWR2	, MC74VHC574M	, MC74VHC574MEL	, MC74VHC574ML1
MC74VHC574ML2	, MC74VHC595D	, MC74VHC595DR2	, MC74VHC595DT
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MC74VHC595ML2	, MC74VHC74D	, MC74VHC74DR2	, MC74VHC74DT
MC74VHC74DTR2	, MC74VHC74M	, MC74VHC74MEL	, MC74VHC74ML1
MC74VHC74ML2	, MC74VHC86D	, MC74VHC86DR2	, MC74VHC86DT

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MC74VHC86DTR2 , MC74VHC86M , MC74VHC86MEL , MC74VHC86ML1
MC74VHC86ML2 , MC74VHCT00AD , MC74VHCT00ADR2 , MC74VHCT00ADT
MC74VHCT00ADTR2 , MC74VHCT00AM , MC74VHCT00AMEL , MC74VHCT00AML1
MC74VHCT00AML2 , MC74VHCT02AD , MC74VHCT02ADR2 , MC74VHCT02ADT
MC74VHCT02ADTR2 , MC74VHCT04AD , MC74VHCT04ADR2 , MC74VHCT04ADT
MC74VHCT04ADTR2 , MC74VHCT04AM , MC74VHCT04AMEL , MC74VHCT04AML1
MC74VHCT04AML2 , MC74VHCT04ASD , MC74VHCT04ASDR2 , MC74VHCT08AD
MC74VHCT08ADR2 , MC74VHCT08ADT , MC74VHCT08ADTR2 , MC74VHCT125AD
MC74VHCT125ADR2 , MC74VHCT125ADT , MC74VHCT125ADTR2 , MC74VHCT126AD
MC74VHCT126ADR2 , MC74VHCT126ADT , MC74VHCT126ADTR2 , MC74VHCT132AD
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MC74VHCT240ADTR2 , MC74VHCT240ADW , MC74VHCT240ADWR2 , MC74VHCT240AM
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MC74VHCT541AMEL , MC74VHCT541AML1 , MC74VHCT541AML2 , MC74VHCT541AN
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MC74VHCU04DT , MC74VHCU04DTR2 , MC74VHCU04M , MC74VHCU04MEL
MC74VHCU04ML1 , MC74VHCU04ML2 , PC74LVXTV6DW , PC74LVXTV8DW
PC74VHCTV6DW , PC74VHCTV8DW