



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4639

TITLE: QUALIFICATION OF ST MICROELECTRONICS METAL GATE CMOS FOR BUY/RESELL

EFFECTIVE DATE: 30-JUL-99

AFFECTED CHANGE CATEGORIES

Subcontractor Fab Site

Design Change

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: R38095@email.sps.mot.com

For any questions concerning this notification:

REFERENCE: GUY NICHOLS

PHONE: 602-244-4732

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: 22-Apr-1999

NOTIFICATION #:4639

EFFECTIVE DATE: 30-Jul-1999

ISSUING DIVISION:PHX-GPPD

DESCRIPTION AND PURPOSE

As Motorola continues it's manufacturing restructuring activities, it has become necessary to build and qualify a long-term wafer fab for it's Metal Gate CMOS products. This undertaking can not be successfully accomplished in the time frame allotted before the shutdown of the current wafer fab (MOS 1). To assure a continuous supply of MG CMOS products and long term upside potential, Motorola has qualified an additional supply to MOS 1 in ST Microelectronics for future long term buy/resell to it's customers. These products will include standard logic and sequential logic functions as listed below.

QUALIFICATION PLAN

N/A

RELIABILITY DATA SUMMARY

ST Microelectronic Reliability Report on file. Motorola internal reliability testing underway and will be complete prior to PCN effective date.

ELECTRICAL CHARACTERISTIC SUMMARY

ST Microelectronic device characteristics completely meet all industry standard specifications and are well matched to Motorola performance. Full characterization of five logic devices will be performed prior to effective date. All additional buy/resell devices will be evaluated, using Motorola standard probe/test equipment and programs.

CHANGED PART IDENTIFICATION

Customer orders filled after Date Code 9926 may use STM sourced die.

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)

FP14050BDR2	, FZ14050BDR2	, JLC1132F	, JLC1146FEL
JMC14001BW	, MC14001BCL	, MC14001BCP	, MC14001BD
MC14001BDR2	, MC14001BF	, MC14001BFEL	, MC14001BFL1
MC14001BFL2	, MC14001BFR1	, MC14001BFR2	, MC14007UBCP
MC14007UBD	, MC14007UBDR2	, MC14007UBDT	, MC14007UBF
MC14007UBFEL	, MC14007UBFR1	, MC14011BCL	, MC14011BCP
MC14011BD	, MC14011BDR2	, MC14011BDT	, MC14011BDTEL
MC14011BDTR2	, MC14011BF	, MC14011BFEL	, MC14011BFL1
MC14011BFL2	, MC14011BFR1	, MC14011BFR2	, MC14013BCL
MC14013BCP	, MC14013BD	, MC14013BDR2	, MC14013BDT
MC14013BDTR2	, MC14013BF	, MC14013BFEL	, MC14013BFL1
MC14013BFL2	, MC14013BFR1	, MC14013BFR2	, MC14014BCL
MC14014BCP	, MC14014BD	, MC14014BDR2	, MC14014BF
MC14014BFEL	, MC14014BFL1	, MC14014BFL2	, MC14014BFR1
MC14014BFR2	, MC14015BCL	, MC14015BCP	, MC14015BD
MC14015BDR2	, MC14015BDT	, MC14015BF	, MC14015BFEL
MC14015BFL1	, MC14015BFL2	, MC14015BFR1	, MC14017BCL
MC14017BCP	, MC14017BD	, MC14017BDR2	, MC14017BF
MC14017BFEL	, MC14017BFL2	, MC14017BFR1	, MC14017BFR2
MC14020BCL	, MC14020BCP	, MC14020BD	, MC14020BDR2
MC14020BDT	, MC14020BF	, MC14020BFEL	, MC14020BFL1
MC14020BFL2	, MC14020BFR1	, MC14020BFR2	, MC14021BCL
MC14021BCP	, MC14021BD	, MC14021BDR2	, MC14021BF
MC14021BFEL	, MC14021BFL1	, MC14021BFR1	, MC14024BCL
MC14024BCP	, MC14024BD	, MC14024BDR2	, MC14024BF
MC14024BFEL	, MC14024BFL1	, MC14024BFL2	, MC14024BFR1
MC14024BFR2	, MC14027BCL	, MC14027BCP	, MC14027BD
MC14027BDR2	, MC14027BF	, MC14027BFEL	, MC14027BFL1
MC14027BFL2	, MC14027BFR1	, MC14028BCL	, MC14028BCP
MC14028BD	, MC14028BDR2	, MC14028BF	, MC14028BFEL
MC14028BFL1	, MC14028BFL2	, MC14040BCL	, MC14040BCP
MC14040BD	, MC14040BDR2	, MC14040BDT	, MC14040BF
MC14040BFEL	, MC14040BFL1	, MC14040BFL2	, MC14040BFR1
MC14040BFR2	, MC14042BCL	, MC14042BCP	, MC14042BD
MC14042BDR2	, MC14042BF	, MC14042BFEL	, MC14042BFL2
MC14046BCL	, MC14046BCP	, MC14046BDW	, MC14046BDWR2
MC14046BF	, MC14046BFEL	, MC14046BFL1	, MC14046BFL2
MC14046BFR1	, MC14046BFR2	, MC14050BCL	, MC14050BCP
MC14050BD	, MC14050BDR2	, MC14050BDT	, MC14050BDTEL
MC14050BF	, MC14050BFEL	, MC14050BFL1	, MC14050BFL2
MC14050BFR1	, MC14050BFR2	, MC14067BCP	, MC14067BDW
MC14067BDWR2	, MC14069UBCL	, MC14069UBCP	, MC14069UBD
MC14069UBDR2	, MC14069UBDT	, MC14069UBDTEL	, MC14069UBDTR2
MC14069UBF	, MC14069UBFEL	, MC14069UBFL1	, MC14069UBFL2
MC14069UBFR1	, MC14069UBFR2	, MC14070BCL	, MC14070BCP
MC14070BD	, MC14070BDR2	, MC14070BF	, MC14070BFEL
MC14070BFL1	, MC14070BFL2	, MC14070BFR1	, MC14070BFR2
MC14077BCP	, MC14077BD	, MC14077BDR2	, MC14077BF
MC14077BFEL	, MC14081BCL	, MC14081BCP	, MC14081BD
MC14081BDR2	, MC14081BDT	, MC14081BDTR2	, MC14081BF
MC14081BFEL	, MC14081BFL1	, MC14081BFL2	, MC14081BFR1
MC14081BFR2	, MC14093BCL	, MC14093BCP	, MC14093BD
MC14093BDR2	, MC14093BDT	, MC14093BDTEL	, MC14093BDTR2
MC14093BF	, MC14093BFEL	, MC14093BFL1	, MC14093BFR1
MC14093BFR2	, MC14094BCL	, MC14094BCP	, MC14094BD
MC14094BDR2	, MC14094BDT	, MC14094BDTR2	, MC14094BF
MC14094BFEL	, MC14094BFL1	, MC14094BFL2	, MC14094BFR1
MC14094BFR2	, MC14099BCP	, MC14099BDW	, MC14099BDWR2

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MC14099BF	,	MC14099BFEL	,	MC14099BFL1	,	MC14099BFL2
MC14106BCL	,	MC14106BCP	,	MC14106BD	,	MC14106BDR2
MC14106BDT	,	MC14106BDTR2	,	MC14174BCL	,	MC14174BCP
MC14174BD	,	MC14174BDR2	,	MC14174BF	,	MC14174BFEL
MC14503BCL	,	MC14503BCP	,	MC14503BD	,	MC14503BDR2
MC14503BF	,	MC14503BFEL	,	MC14503BFL2	,	MC14503BFR1
MC14518BCL	,	MC14518BCP	,	MC14518BDW	,	MC14518BDWR2
MC14518BF	,	MC14518BFEL	,	MC14518BFL1	,	MC14518BFR2
MC14520BCL	,	MC14520BCP	,	MC14520BDW	,	MC14520BDWR2
MC14520BF	,	MC14520BFEL	,	MC14520BFL1	,	MC14520BFL2
MC14520BFR1	,	MC14520BFR2	,	MC14536BCL	,	MC14536BCP
MC14536BDW	,	MC14536BDWR2	,	MC14536BF	,	MC14536BFL1
MC14536BFL2	,	MC14543BCP	,	MC14543BD	,	MC14543BDR2
MC14543BF	,	MC14543BFEL	,	MC14543BFL1	,	MCW14001B
MCW14011B	,	MCW14013B	,	MCW14015B	,	MCW14046B
MCW14050B	,	MCW14067B	,	MCW14070B	,	MCW14081B
MCW14093B	,	MCW14094B	,	MCW14536B	,	SC014MG011BMR2