

ON Semiconductor
Formerly a Division of Motorola



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4906

TITLE: NEW MASK SET FOR TL431/TL431A SERIES FROM TESLA

EFFECTIVE DATE: 31-OCT-99

AFFECTED CHANGE CATEGORIES

Subcontractor Fab Site

Design Change

Wafer Process

AFFECTED PRODUCT DIVISIONS

GENERAL PURPOSE PRO

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

Ref: RJJ930

SAMPLES: Contact Below
Contact your local Motorola Sales Office.

Ref: R22878@email.sps.mot.com

For any questions concerning this notification:

REFERENCE: THOMAS GRINTER

PHONE: 480-413-7640

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: 20-Jul-1999

NOTIFICATION #:4906

EFFECTIVE DATE: 31-Oct-1999

ISSUING DIVISION:PHX-GPPD

DESCRIPTION AND PURPOSE

Tesla is a MOTOROLA qualified fab in the Czech Republic and has been producing bipolar products in EPI80 and EPI44 technologies since 1995. MOTOROLA has qualified mask set J51K for the TL431/431A series in EPI44 at Tesla to meet an increase in wafer capacity demand. The device specification will not change.

QUALIFICATION PLAN

See Reliability Data

RELIABILITY DATA SUMMARY

TEST	TIME	CONDITIONS	SAMPLE SIZE
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OP-LIFE	504 hrs	145DegC	76 units per Lot/3Lots
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RESULT: All 3 lots have successfully completed 504 hours (0 reject)

TC	500 cycles	-65DegC to 150DegC	76 units per Lot/3 Lots
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RESULT: All 3 lots have successfully completed 500 cycles (0 reject)

ESD (HUMAN BODY MODEL) has successfully passed +/-2000V

ESD (MACHINE MODEL) has successfully passed +/-200V

ELECTRICAL CHARACTERISTIC SUMMARY

Specific device characterization data available upon request.

There is no 'Device Specific' change.

CHANGED PART IDENTIFICATION

TL431 devices with a date code of 9940 may be manufactured in EPI44 at Tesla.

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)

FTL431ACD , FTL431ACDR2 , FTL431AID , FTL431AIDR2
FTL431CD , FTL431CDR2 , FTL431ID , FTL431IDR2
TL431ACD , TL431ACDR2 , TL431ACLP , TL431ACLRA
TL431ACLPRE , TL431ACLPRP , TL431ACP , TL431AID
TL431AIDR2 , TL431AILP , TL431AILPRA , TL431AILPRM
TL431AILPRP , TL431AIP , TL431CD , TL431CDR2
TL431CLP , TL431CLPRA , TL431CLPRE , TL431CLPRM
TL431CLPRP , TL431CP , TL431ID , TL431IDR2
TL431ILP , TL431ILPRA , TL431ILPRE , TL431ILPRM
TL431ILPRP , TLX431AID , TLX431AIDR2