

ON Semiconductor



Subject: ON Semiconductor PRODUCT/PROCESS CHANGE NOTIFICATION 10189

TITLE: ADDITIONAL CONVERSION OF SCR TO-220 ASSEMBLY PROCESS

EFFECTIVE DATE: 01-OCT-00

AFFECTED CHANGE CATEGORIES
Assembly Process

AFFECTED PRODUCT DIVISIONS
BIPOLAR DISCRETES PRODUCTS DIV

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office.

Ref: R10303

SAMPLES: Contact Below
Contact your local ON Semiconductor Sales Office.

Ref: S21472

For any questions concerning this notification:
REFERENCE: ALLEN TURRY PHONE: 602-244-5419

DISCLAIMER:

ON SEMICONDUCTOR 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 ON
SEMICONDUCTOR SALES OFFICE.
GPCN FORMAT: CUSTOMER

DO NOT REPLY TO THIS MESSAGE.

Semiconductor Technology Grp

PRODUCT/PROCESS CHANGE NOTIFICATION

ISSUE DATE: 23-Jun-2000

NOTIFICATION #:10189

EFFECTIVE DATE: 01-Oct-2000

ISSUING DIVISION:ON SEMICONDUCTOR

DESCRIPTION AND PURPOSE

Conversion of SCR TO-220 to a more automated process. The internal clip and leadframe are converted to an updated design. A previous series of SCRs are currently in production under this process (as of May,2000). Concurrently, the data sheet condition for Max Rating, ITSM, will be changed from Tj=110C to Tc=25C. The value of the ITSM rating remains unchanged at 100Amps. For a period of time, customers may receive product from both the old and the new assembly process.

QUALIFICATION PLAN

See REL DATA

RELIABILITY DATA SUMMARY

Performed on Device: MCR72-8 SCR's.

Product Line: TL675A

For MCR72-8 results are:

HTRB,120hrs, TA=85C, VR=480V 0/50

H3TRB,120hrs, TA=85C, VR=100V, 85%RH 0/50

PTH,48hrs, TA=121C, PSI=14.7, RH=100% 0/49

TC, 100 Cyc, 15 MIN DWELL, -65C TO +150C 0/50

ELECTRICAL CHARACTERISTIC SUMMARY

Electrical TO-220 comparison data (old vs new)available on request.

When compared, there is no significant difference in electrical characteristics between old and new.

CHANGED PART IDENTIFICATION

Customers may start receiving product with the new process beginning with date code 0037.

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)

MCR72-003 , MCR72-006 , MCR72-008 , MCR72-6T

MCR72-8T