

CMR1-02
 CMR1-04
 CMR1-06
 CMR1-10

**GENERAL PURPOSE RECTIFIER
 1.0 AMP, 200 THRU 1,000 VOLTS**



SMB CASE

FEATURES:

- LOW COST
- HIGH RELIABILITY
- SPECIAL SELECTIONS AVAILABLE
- GLASS PASSIVATED CHIP
- SUPERIOR LOT TO LOT CONSISTENCY
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD

DESCRIPTION: The CENTRAL SEMICONDUCTOR 1.0 Amp Surface Mount Silicon Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

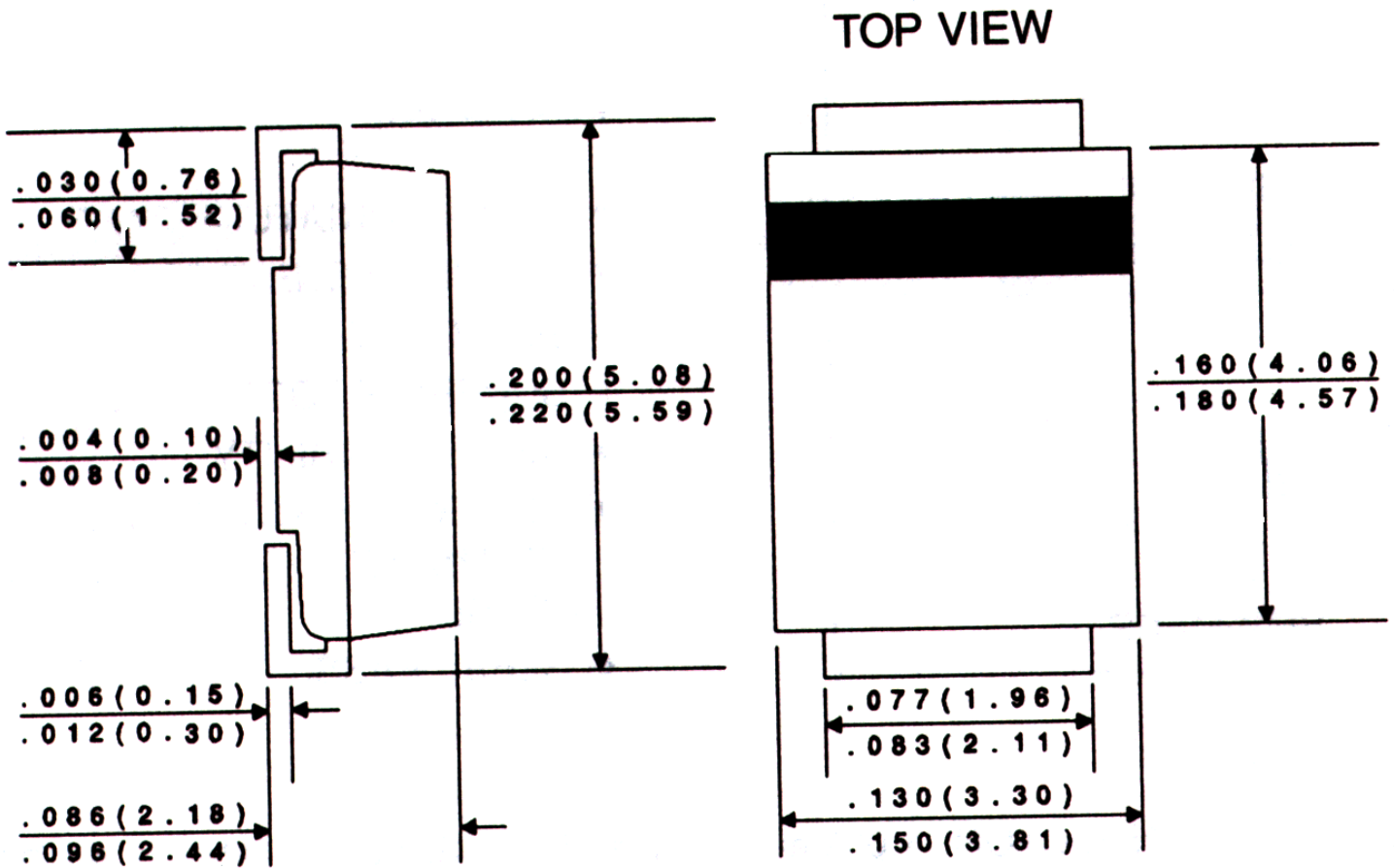
MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| | SYMBOL | CMR1-02 | CMR1-04 | CMR1-06 | CMR1-10 | UNITS |
|--|----------------|----------------|----------------|----------------|----------------|----------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 200 | 400 | 600 | 1000 | V |
| DC Blocking Voltage | V_R | 200 | 400 | 600 | 1000 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 140 | 280 | 420 | 700 | V |
| Average Forward Current ($T_A=75^{\circ}\text{C}$) | I_O | | 1.0 | | | A |
| Peak Forward Surge Current (8.3ms) | I_{FSM} | | 30 | | | A |
| Operating and Storage | | | | | | |
| Junction Temperature | T_J, T_{stg} | | -65 to +175 | | | $^{\circ}\text{C}$ |
| Thermal Resistance | Θ_{JL} | | 20 | | | $^{\circ}\text{C/W}$ |

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|---------------|--|------------|------------|---------------|
| V_F | $I_F=1.0\text{A}$ | | 1.1 | V |
| I_R | $V_R=\text{Rated } V_{RRM}$ | | 10 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=125^{\circ}\text{C}$ | | 50 | μA |

All dimensions in inches (mm).



Marking Codes:

| DEVICE | MARKING CODE |
|---------|--------------|
| CMR1-02 | C02 |
| CMR1-04 | C04 |
| CMR1-06 | C06 |
| CMR1-10 | C10 |