

CMR3-02 CMR3-08
 CMR3-04 CMR3-10
 CMR3-06 CMR3-11

**SURFACE MOUNT SILICON
 GENERAL PURPOSE RECTIFIERS
 3.0 AMP, 200 THRU 1100 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR3-02 series 3.0 Amp surface mount silicon rectifiers are highly reliable components designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.



MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- High reliability
- Glass passivated chip
- Special selections available
- "C" bend construction provides strain relief when mounted on PC board

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

| | SYMBOL | CMR3 -02 | CMR3 -04 | CMR3 -06 | CMR3 -08 | CMR3 -10 | CMR3 -11 | UNITS |
|--|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 200 | 400 | 600 | 800 | 1000 | 1100 | V |
| DC Blocking Voltage | V_R | 200 | 400 | 600 | 800 | 1000 | 1100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 140 | 280 | 420 | 560 | 700 | 770 | V |
| Average Forward Current ($T_A=75^\circ\text{C}$) | I_O | | | | 3.0 | | | A |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$ | I_{FSM} | | | | 200 | | | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | | | | -65 to +175 | | | $^\circ\text{C}$ |
| Thermal Resistance | θ_{JL} | | | | 10 | | | $^\circ\text{C/W}$ |

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

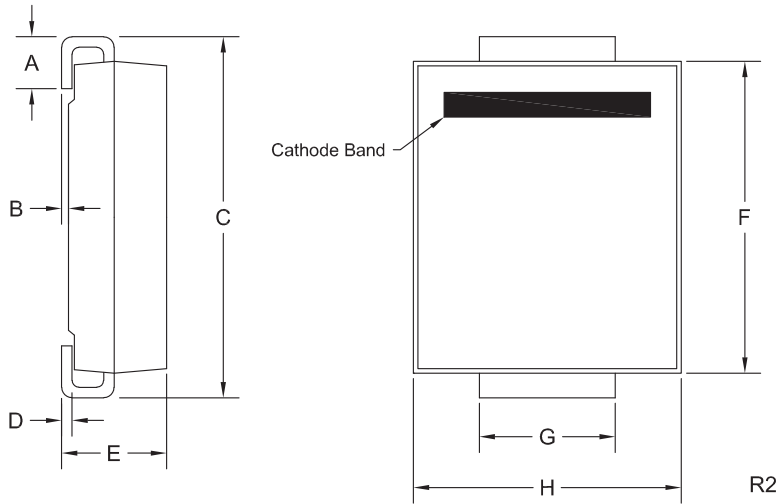
| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|--------|--|-----|-----|---------------|
| I_R | $V_R=\text{Rated } V_{RRM}$ | | 5.0 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$ | | 250 | μA |
| V_F | $I_F=3.0\text{A}$ | | 1.2 | V |

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SMC CASE - MECHANICAL OUTLINE



| DEVICE | MARKING CODE |
|---------|--------------|
| CMR3-02 | C302 |
| CMR3-04 | C304 |
| CMR3-06 | C306 |
| CMR3-08 | C308 |
| CMR3-10 | C310 |
| CMR3-11 | C311 |

| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.030 | 0.060 | 0.76 | 1.52 |
| B | 0.002 | 0.008 | 0.05 | 0.20 |
| C | 0.305 | 0.320 | 7.75 | 8.13 |
| D | 0.006 | 0.012 | 0.15 | 0.31 |
| E | 0.079 | 0.103 | 2.00 | 2.62 |
| F | 0.260 | 0.280 | 6.60 | 7.11 |
| G | 0.108 | 0.128 | 2.75 | 3.25 |
| H | 0.220 | 0.245 | 5.59 | 6.22 |

SMC (REV: R2)

R5 (11-September 2013)