

CMR2-02 CMR2-06
 CMR2-04 CMR2-10

**SURFACE MOUNT SILICON
 GENERAL PURPOSE RECTIFIERS
 2.0 AMP, 200 THRU 1000 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR2-02 series 2.0 Amp surface mount silicon rectifier is a highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE



SMB CASE

FEATURES:

- Special selections available
- High reliability
- Glass passivated chip
- “C” bend construction provides strain relief when mounted on pc board

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

| | SYMBOL | CMR2-02 | CMR2-04 | CMR2-06 | CMR2-10 | 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 ($T_A=50^\circ\text{C}$) | I_O | | | 2.0 | | A |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$ | I_{FSM} | | | 60 | | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | | | -65 to +150 | | $^\circ\text{C}$ |
| Thermal Resistance | θ_{JL} | | | 20 | | $^\circ\text{C/W}$ |

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

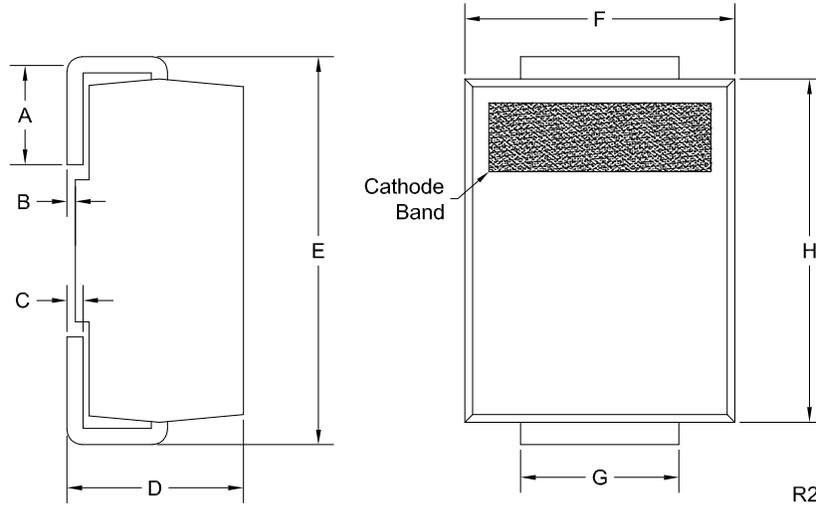
| SYMBOL | TEST CONDITIONS | TYP | MAX | UNITS |
|----------|---|-----|-----|---------------|
| I_R | $V_R=\text{Rated } V_{RRM}$ | | 5.0 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$ | | 125 | μA |
| V_F | $I_F=2.0\text{A}$ | | 1.1 | V |
| t_{rr} | $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ | | 2.5 | μs |
| C_J | $V_R=4.0\text{V}, f=1.0\text{MHz}$ | 30 | | pF |

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SMB CASE - MECHANICAL OUTLINE



| DEVICE | MARKING CODE |
|---------|--------------|
| CMR2-02 | C202 |
| CMR2-04 | C204 |
| CMR2-06 | C206 |
| CMR2-10 | C210 |

| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.030 | 0.060 | 0.76 | 1.52 |
| B | 0.000 | 0.008 | 0.00 | 0.20 |
| C | 0.006 | 0.012 | 0.15 | 0.30 |
| D | 0.086 | 0.096 | 2.18 | 2.44 |
| E | 0.200 | 0.220 | 5.08 | 5.59 |
| F | 0.130 | 0.150 | 3.30 | 3.81 |
| G | 0.077 | 0.083 | 1.96 | 2.11 |
| H | 0.160 | 0.191 | 4.06 | 4.85 |

SMB (REV: R2)

R4 (4-September 2018)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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