

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

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



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1-02 series 1.0 Amp surface mount silicon rectifier is a highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.



SMB CASE

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

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 | 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, $t_p=8.3\text{ms}$ | 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)

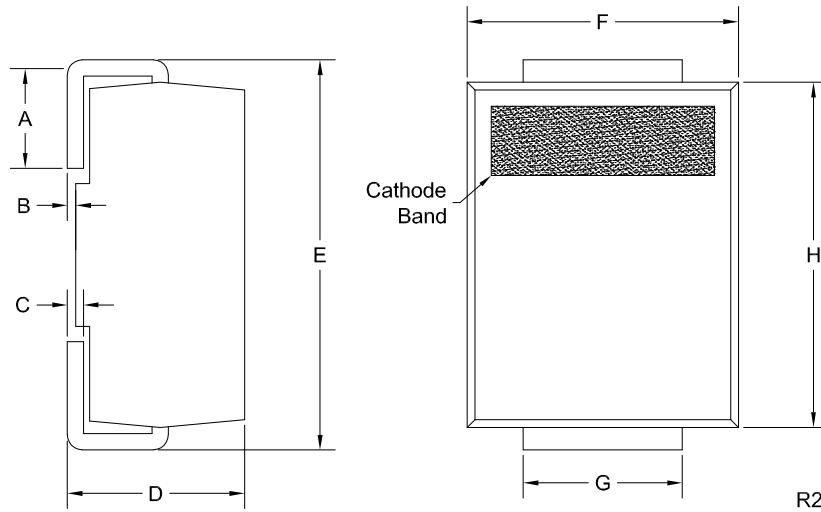
| SYMBOL | TEST CONDITIONS | MAX | UNITS |
|--------|--|-----|---------------|
| I_R | $V_R=\text{Rated } V_{RRM}$ | 10 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$ | 50 | μA |
| V_F | $I_F=1.0\text{A}$ | 1.1 | V |

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



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

SMB CASE - MECHANICAL OUTLINE



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

| SYMBOL | DIMENSIONS | | | |
|--------|------------|-------|-------------|------|
| | 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)

R6 (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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor:

[CMR1-02 TR13](#) [CMR1-04M TR13](#) [CMR1-10M TR13](#) [CMR1-10 TR13](#) [CMR1-02M TR13](#) [CMR1-06M TR13](#) [CMR1-04 TR13](#) [CMR1-06 TR13](#) [CMR1-06M BK](#) [CMR1-04M BK](#) [CMR1-02M BK](#) [CMR1-02 BK](#) [CMR1-06 BK](#) [CMR1-04 BK](#) [CMR1-10 BK](#)