



**THE DATASHEET OF  
CMR3-06 TR13 PBFREE**



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](http://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)

		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	$\theta_{JL}$				10			$^\circ\text{C/W}$

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

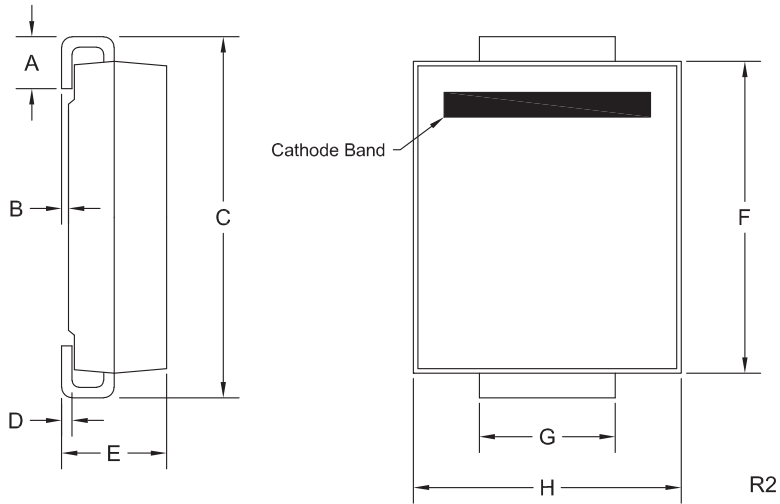
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$		5.0	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$		250	$\mu\text{A}$
$V_F$	$I_F=3.0\text{A}$		1.2	V

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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)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management