

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

**SURFACE MOUNT  
 GENERAL PURPOSE  
 SILICON RECTIFIER  
 3 AMP, 200 THRU 1100 VOLTS**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMR3-02 Series 3.0 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 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

**MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE**



**SMC CASE**

**FEATURES:**

- Low cost
- Special selections available
- High reliability
- Superior lot to lot consistency
- Glass passivated chip
- "C" bend construction provides strain relief when mounted on pc board

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C unless otherwise noted)

		CMR3 -02	CMR3 -04	CMR3 -06	CMR3 -08	CMR3 -10	CMR3 -11	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	200	400	600	800	1000	1100	V
DC Blocking Voltage	V <sub>R</sub>	200	400	600	800	1000	1100	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	140	280	420	560	700	770	V
Average Forward Current (T <sub>A</sub> =75°C)	I <sub>O</sub>				3.0			A
Peak Forward Surge Current, tp=8.3ms	I <sub>FSM</sub>				200			A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>				-65 to +175			°C
Thermal Resistance	θ <sub>JL</sub>				10			°C/W

**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

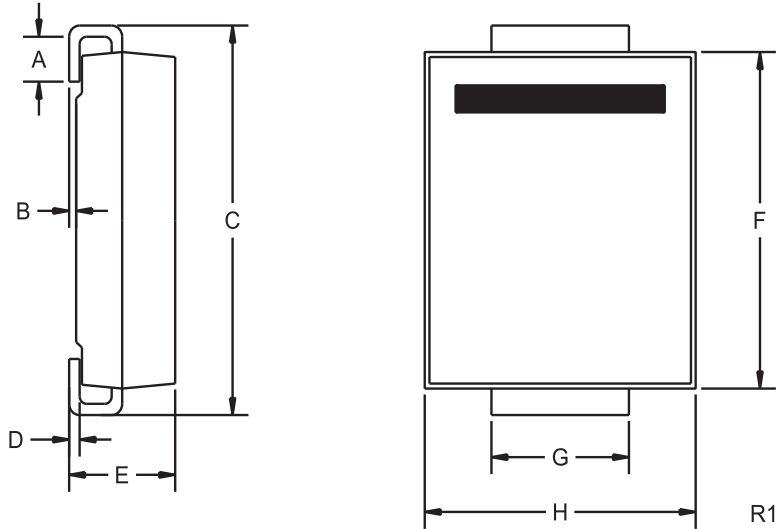
SYMBOL	TEST CONDITIONS	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>	5.0	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =125°C	250	μA
V <sub>F</sub>	I <sub>F</sub> =3.0A	1.2	V

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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	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	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	0.124	2.75	3.15
H	0.220	0.245	5.59	6.22

SMC (REV: R1)

R4 (27-January 2011)