

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

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: ($T_A=25^\circ\text{C}$ 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	Θ_{JL}				10			$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$	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

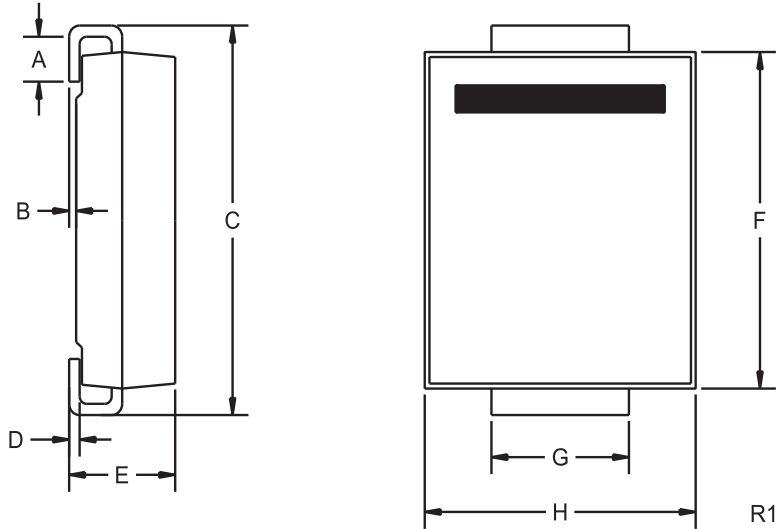
R4 (27-January 2011)

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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)