

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

**GENERAL PURPOSE RECTIFIER
 1.0 AMP, 200 THRU 1,000 VOLTS**



SMB CASE

Central™ Semiconductor Corp.

FEATURES:

- SPECIAL SELECTIONS AVAILABLE
- LOW COST
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- GLASS PASSIVATED CHIP

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1.0 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 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODES: SEE MARKING CODE TABLE ON FOLLOWING PAGE

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 (8.3ms)	I_{FSM}			30		A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +175			$^\circ\text{C}$
Thermal Resistance	θ_{JL}		20			$^\circ\text{C/W}$

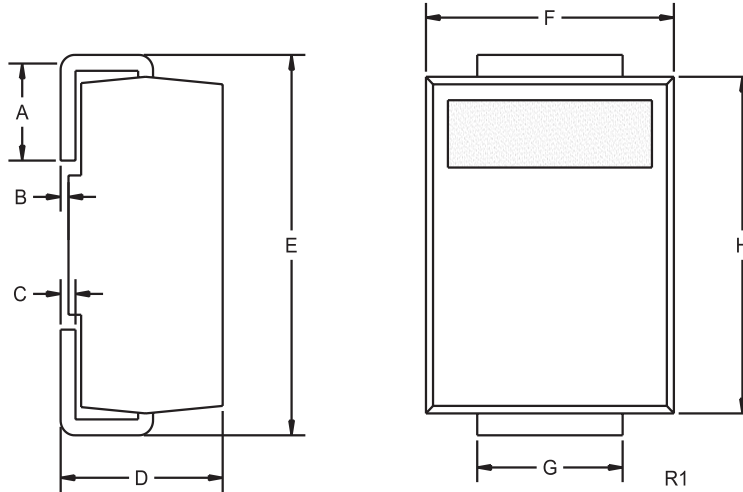
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

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

R3 (26-September 2002)

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SMB CASE - MECHANICAL OUTLINE



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

SYMBOL	DIMENSIONS		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	0.20
C	0.006	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	0.180	4.06	4.57

SMB (REV: R1)

R3 (26-September 2002)