CMR2-02 CMR2-06 CMR2-04 CMR2-10

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER 2 AMP, 200 THRU 1000 VOLTS





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## **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMR2-02 Series 2.0 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 CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

### **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)

	SYMBOL	CMR2-02	CMR2-04	CMR2-06	CMR2-10	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 <sub>R</sub> (RMS)	140	280	420	700	V
Average Forward Current (T <sub>A</sub> =50°C)	IO		2	2.0		Α
Peak Forward Surge Current, tp=8.3ms	IFSM			60		Α
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>		-65 t	o +150		°C
Thermal Resistance	$\Theta_{\sf JL}$			20		°C/W

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

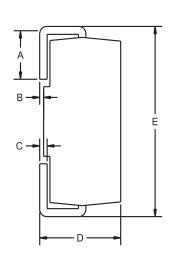
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_{R}$	V <sub>R</sub> =Rated V <sub>RRM</sub>		5.0	μΑ
$I_{R}$	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =125°C		125	μΑ
$V_{F}$	I <sub>F</sub> =2.0A		1.1	V
t <sub>rr</sub>	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A		2.5	μs
CJ	V <sub>R</sub> =4.0V, f=1.0MHz	30		pF

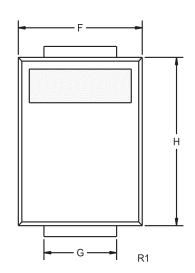
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# **SMB CASE - MECHANICAL OUTLINE**





DEVICE	MARKING CODE		
CMR2-02	C202		
CMR2-04	C204		
CMR2-06	C206		
CMR2-10	C210		

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.030	0.060	0.76	1.52		
В	0.004	0.008	0.10	0.20		
С	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		
Н	0.160	0.180	4.06	4.57		

SMB (REV: R1)