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

SURFACE MOUNT SILICON GENERAL PURPOSE RECTIFIERS 1.0 AMP, 200 THRU 1000 VOLT





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1-02M series 1.0 Amp surface mount silicon rectifier is a well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications where small size is required. The SMA case occupies 30% less board space than the SMB case.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- · High reliability
- · Glass passivated chip
- · Special selections available

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	CMR1-02M	CMR1-04M	CMR1-06M	CMR1-10M	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 _L =100°C)	lo		1	1.0		Α
Peak Forward Surge Current, tp=8.3ms	IFSM		;	30		Α
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 t	o +150		°C
Thermal Resistance	Θ_{JL}		;	30		°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

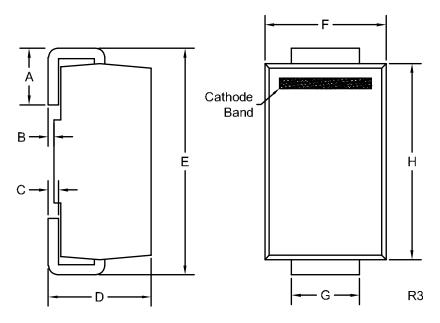
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =125°C		50	μΑ
V_{F}	I _F =1.0A		1.1	V
C _{.1}	V _R =4.0V, f=1.0MHz	8.0		pF

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

SURFACE MOUNT SILICON GENERAL PURPOSE RECTIFIERS 1.0 AMP, 200 THRU 1000 VOLT



SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE		
CMR1-02M	C02M		
CMR1-04M	C04M		
CMR1-06M	C06M		
CMR1-10M	C10M		

DIMENSIONS						
INCHES		MILLIMETERS				
MIN	MAX	MIN	MAX			
0.030	0.060	0.76	1.52			
0.002	0.008	0.05	0.20			
0.006	0.012	0.15	0.30			
0.078	0.103	1.98	2.62			
0.188	0.220	4.78	5.59			
0.090	0.115	2.29	2.92			
0.050	0.070	1.27	1.78			
0.157	0.181	3.99	4.60			
	INC MIN 0.030 0.002 0.006 0.078 0.188 0.090 0.050	INCHES MIN MAX 0.030 0.060 0.002 0.008 0.006 0.012 0.078 0.188 0.220 0.090 0.115 0.050 0.070	INCHES MILLIM MIN MAX MIN 0.030 0.060 0.76 0.002 0.008 0.05 0.006 0.012 0.15 0.078 0.103 1.98 0.188 0.220 4.78 0.090 0.115 2.29 0.050 0.070 1.27			

SMA (REV: R3)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

DESIGNER SUPPORT/SERVICES

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

- Free guick ship samples (2nd 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

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).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)