CMR1-005M CMR1-01M

SURFACE MOUNT SILICON GENERAL PURPOSE RECTIFIERS 1.0 AMP, 50 AND 100 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1-005M and CMR1-01M 1.0 Amp surface mount silicon rectifiers are well constructed, highly reliable components 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 CODES: CMR1-005M: C005M

CMR1-01M: C01M



FEATURES:

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

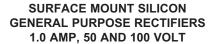
MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	CMR1-005M	CMR1-01M	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	V
DC Blocking Voltage	V_{R}	50	100	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	V
Average Forward Current (T _L =100°C)	Ìο	1.	0	Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	3	0	Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to	+150	°C
Thermal Resistance	$\Theta_{ m Jl}$	3	0	°C/W

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

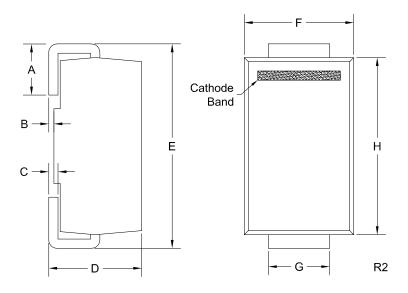
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =125°C		50	μΑ
VF	I _F =1.0A		1.1	V
CJ	V _R =4.0V, f=1.0MHz	8.0		pF

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SMA CASE - MECHANICAL OUTLINE



Marking Codes: CMR1-005M: C005M CMR1-01M: C01M

DIMENSIONS								
	INCHES		MILLIM	ETERS				
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	0.078	0.103	1.98	2.62				
E	0.188	0.220	4.78	5.59				
F	0.090	0.115	2.29	2.92				
G	0.050	0.070	1.27	1.78				
Н	0.157	0.181	3.99	4.60				

SMA (REV: R2)

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SERVICES

- · Bonded Inventory
- · Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/Multi Discrete Modules (MDM™)
- · Bare Die Available for Hybrid Applications

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R3 (1-May 2015)