

CMR1-005M
CMR1-01M

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



SMA CASE



www.centrasemi.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: ($T_A=25^{\circ}\text{C}$ 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 ($T_L=100^{\circ}\text{C}$)	I_O		1.0	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}		30	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150		$^{\circ}\text{C}$
Thermal Resistance	Θ_{JL}	30		$^{\circ}\text{C}/\text{W}$

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

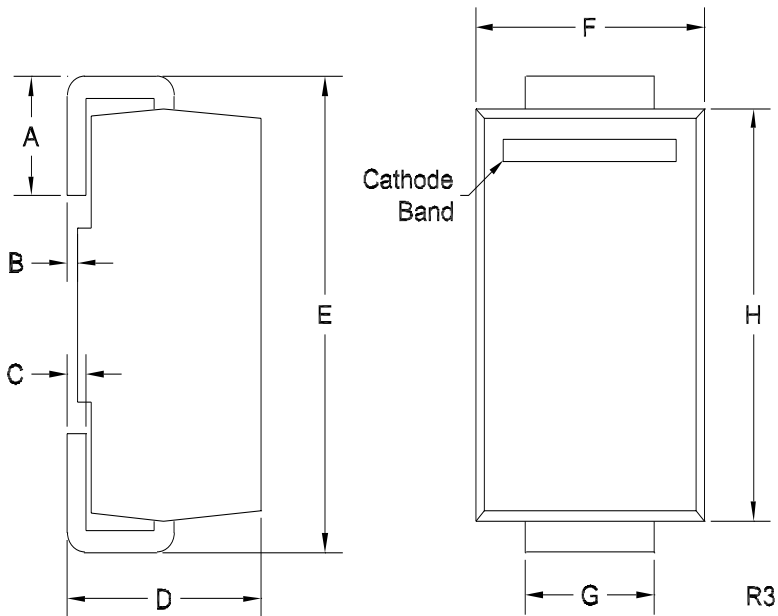
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=125^{\circ}\text{C}$		50	μA
V_F	$I_F=1.0\text{A}$		1.1	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	8.0		pF

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SMA CASE - MECHANICAL OUTLINE



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

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.002	0.008	0.05	0.20
C	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
H	0.157	0.181	3.99	4.60

SMA (REV:R3)

R5 (02-June 2023)

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 quick 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

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