

CMR1-02M CMR1-06M

CMR1-04M CMR1-10M

## Central Semiconductor Corp.

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<sub>A</sub>=25°C unless otherwise noted) SYMBOL CMR1-02M CMR1-04M CMR1-06M CMR1-10M UNITS

	OTHEOL					0	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	200	400	600	1000	V	
DC Blocking Voltage	VR	200	400	600	1000	V	
RMS Reverse Voltage	V <sub>R(RMS)</sub>	140	280	420	700	V	
Average Forward Current (T <sub>L</sub> =100°C)	IO		1	1.0		А	
Peak Forward Surge Current, tp=8.3ms	I <sub>FSM</sub>		:	30		А	
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>		-65 t	o +150		°C	
Thermal Resistance	ΘJL		:	30		°C/W	

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		5.0	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =125°C		50	μA
VF	I <sub>F</sub> =1.0A		1.1	V
СJ	V <sub>R</sub> =4.0V, f=1.0MHz	8.0		pF

R4 (1-May 2015)



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		
SYMBOL	MIN	MAX	MIN	MAX	
A	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)					

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<sup>™</sup>)
- Bare Die Available for Hybrid Applications

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R4 (1-May 2015)

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