CMR1F-02M CMR1F-06M CMR1F-04M CMR1F-10M

SURFACE MOUNT SILICON FAST RECOVERY RECTIFIERS 1.0 AMP, 200 THRU 1000 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1F-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	CMR1F-02M	CMR1F-04M	CMR1F-06M	CMR1F-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 =120°C)	lo		•	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	ΘJL		;	30		°C/W

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

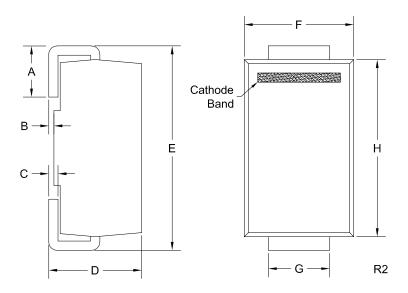
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =125°C		200	μΑ
VF	I _F =1.0A		1.3	V
CJ	V _R =4.0V, f=1.0MHz	15		pF
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR1F-02M, -04M)		150	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR1F-06M)		250	ns
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} =0.25A (CMR1F-10M)		500	ns

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE		
CMR1F-02M	CF02M		
CMR1F-04M	CF04M		
CMR1F-06M	CF06M		
CMR1F-10M	CF10M		

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	0.078	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)