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

SURFACE MOUNT FAST RECOVERY SILICON RECTIFIER 1 AMP, 200 THRU 1000 VOLTS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1F-02M Series 1.0 Amp Surface Mount Silicon Rectifier is a high quality, 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. To order devices on 12mm Tape and Reel (5000/13" Reel), add TR13 suffix to part number.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- Special selections available
- · Low cost
- Superior lot to lot consistency
- · High reliability

- "C" bend construction provides strain relief when mounted on pc board
- · Glass passivated chip

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	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	$\Theta_{. II}$;	30		°C/W

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

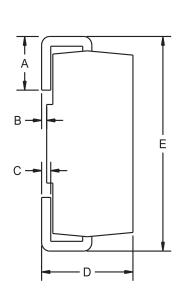
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =125°C		200	μΑ
٧ _F	I _F =1.0A		1.3	V
CJ	V _R =4.0V, f=1.0MHz	15		pF
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR1F-02M, -04M)		150	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR1F-06M)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

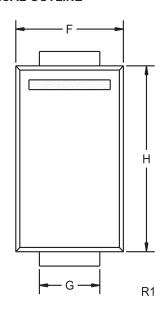
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FAST RECOVERY
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SMA CASE - MECHANICAL OUTLINE





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

DIMENSIONS					
	INC	HES	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: R1)