CMR1F-02M CMR1F-08M CMR1F-04M CMR1F-10M CMR1F-06M

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



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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: (TA=25°C unles	s otherwise	noted)		CMR1F			
	SYMBOL	-02M	-04M	-06M	-08M	-10M	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
DC Blocking Voltage	V_{R}	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	140	280	420	560	700	V
Average Forward Current (T _L =120°C)	IO			1.0			Α
Peak Forward Surge Current, tp=8.3ms	IFSM			30			Α
Operating and Storage							
Junction Temperature	T _J , T _{stg}			-65 to +15	0		°C
Thermal Resistance	Θ _{JL}			30			°C/W

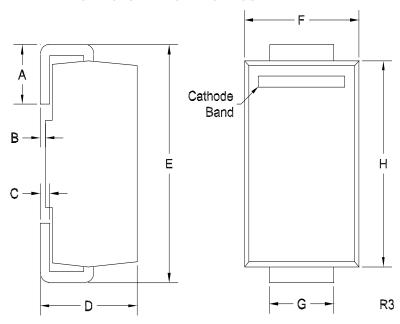
ELECTRICAL	. CHARACTERISTICS: (TA=25°C unless otherwise noted	d)		
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =125°C		200	μΑ
V_{F}	I _F =1.0A		1.3	V
CJ	V _R =0, f=1.0MHz		35	pF
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} =0.25A (CMR1F-02M, -04M)		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-08M, -10M)		500	ns

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE		
CMR1F-02M	CF02M		
CMR1F-04M	CF04M		
CMR1F-06M	CF06M		
CMR1F-08M	CF08M		
CMR1F-10M	CF10M		

DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.030	0.060	0.76	1.52	
В	0.002	0.008	0.05	0.20	
С	0.006	0.012	0.15	0.30	
D	0.078	0.103	1.98	2.62	
Ш	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	
Η	0.157	0.181	3.99	4.60	

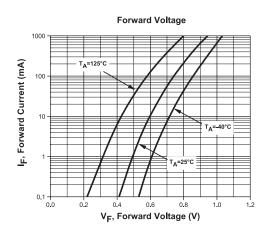
SMA (REV:R3)

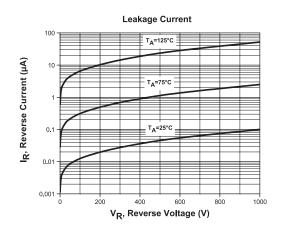
CMR1F-02M CMR1F-08M CMR1F-04M CMR1F-10M CMR1F-06M

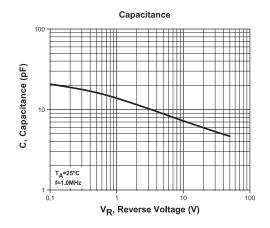
SURFACE MOUNT SILICON FAST RECOVERY RECTIFIERS 1.0 AMP, 200 THRU 1000 VOLT

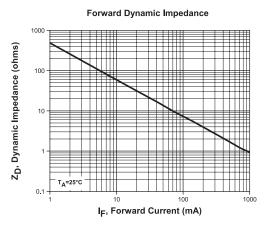


TYPICAL ELECTRICAL CHARACTERISTICS







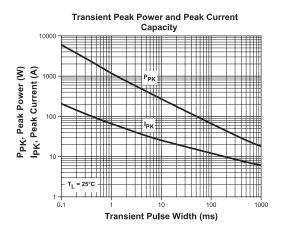


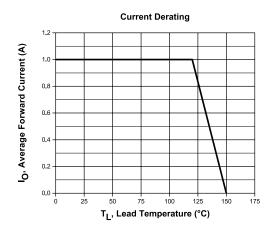
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TYPICAL ELECTRICAL CHARACTERISTICS





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 guick 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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