CMMR1F-02 CMMR1F-06
CMMR1F-04 CMMR1F-08

SURFACE MOUNT
FAST RECOVERY SILICON RECTIFIER
1 AMP, 200 THRU 800 VOLTS



SOD-123F CASE

• Device is ***Halogen Free*** by design

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMMR1F series are high quality 1.0 amp surface mount silicon rectifiers, well constructed, highly reliable components designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- High reverse voltage capability
- Low leakage current
- Low reverse recovery times
- Low package profile (1.08mm MAX)

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

		CMMR1F				
	SYMBOL	**-02**	**-04**	**-06**	**-08**	**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	V
DC Blocking Voltage	V_R	200	400	600	800	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	560	V
Average Forward Current (T_L=110°C)	I_O		1.0			A
Peak Forward Surge Current (8.3ms)	I_{FSM}		30			A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +150			°C
Thermal Resistance	Θ_{JL}		30			°C/W

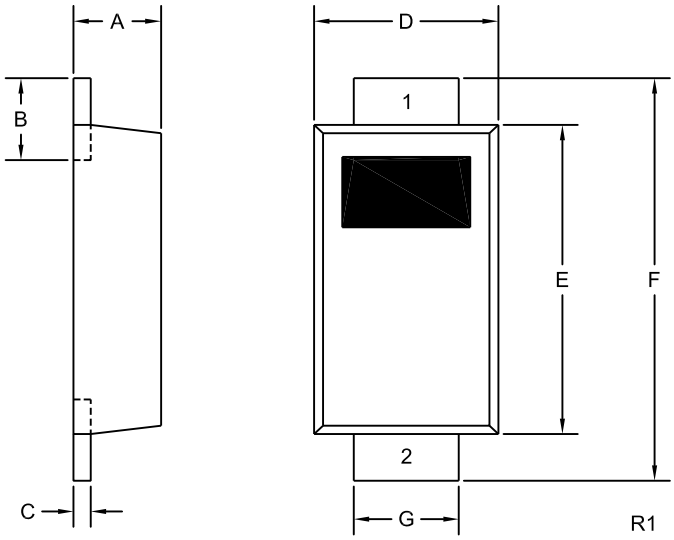
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	**TEST CONDITIONS**	**TYP**	**MAX**	**UNITS**
I_R	V_R=Rated V_{RRM}		1.0	μA
I_R	V_R=Rated V_{RRM}, T_A=125°C		50	μA
V_F	I_F=1.0A		1.3	V
C_J	V_R=4.0V, f=1.0MHz	9.0		pF
t_{rr}	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A (CMMR1F-02, 04)		150	ns
t_{rr}	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A (CMMR1F-06)		250	ns
t_{rr}	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A (CMMR1F-08)		500	ns

CMMR1F-02 CMMR1F-06
CMMR1F-04 CMMR1F-08

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FAST RECOVERY SILICON RECTIFIER
1 AMP, 200 THRU 800 VOLTS

SOD-123F CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMMR1F-02	CF02F
CMMR1F-04	CF04F
CMMR1F-06	CF06F
CMMR1F-08	CF08F

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.035	0.043	0.88	1.08
B	0.020	0.031	0.50	0.80
C	0.004	0.008	0.10	0.20
D	0.065	0.077	1.65	1.95
E	0.104	0.116	2.65	2.95
F	0.140	0.156	3.55	3.95
G	0.030	0.041	0.75	1.05

SOD-123F (REV:R1)

LEAD CODE:
1) Cathode
2) Anode

R3 (19-March 2012)

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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