CMMR1F-02
CMMR1F-04
CMMR1F-06

SURFACE MOUNT
FAST RECOVERY SILICON RECTIFIER
1 AMP, 200 THRU 600 VOLTS



SOD-123F CASE

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. The SOD-123F case occupies 58% less board space than the SMA, with a 67% lower profile.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- Flat lead design and clip assembly allow for a larger die size and improved thermal efficiency
- Low cost
- Superior lot to lot consistency
- High reliability

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

	SYMBOL	CMMR1F-02	CMMR1F-04	CMMR1F-06	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	V
DC Blocking Voltage	V_R	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	V
Average Forward Current (T_L=75°C)	I_O		1.0		A
Peak Forward Surge Current (8.3ms)	I_{FSM}		16.5		A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +150		°C
Thermal Resistance	Θ_{JL}		30		°C/W

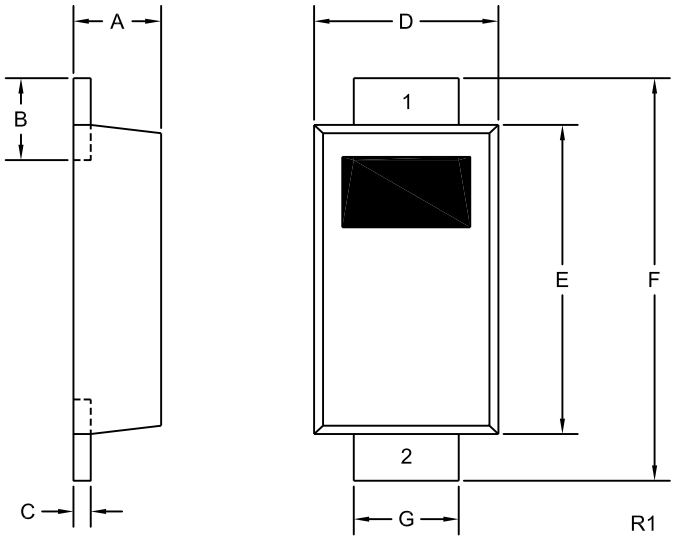
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	V_R=Rated V_{RRM}		10	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, Rec. to 0.25A (CMMR1F-02, 04)		150	ns
t_{rr}	I_F=0.5A, I_R=1.0A, Rec. to 0.25A (CMMR1F-06)		250	ns

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SOD-123F CASE - MECHANICAL OUTLINE



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

LEAD CODE:
1) Cathode
2) Anode

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)