CMMR1 SERIES

SURFACE MOUNT
GENERAL PURPOSE
SILICON RECTIFIER
1 AMP, 200 THRU 1000 VOLTS



SOD-123F CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMMR1 Series of High Current Density Rectifiers, in a SOD-123F surface mount package are designed for all types of commercial, industrial computer and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

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

	SYMBOL	CMMR1-02	CMMR1-04	CMMR1-06	CMMR1-10	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=75°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 (Note 1)	Θ_{JA}			180		°C/W
Thermal resistance (Note 2)	Θ_{JA}			65		°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		1.1	V
C_J	V_R=4.0V, f=1.0MHz	4.0		pF

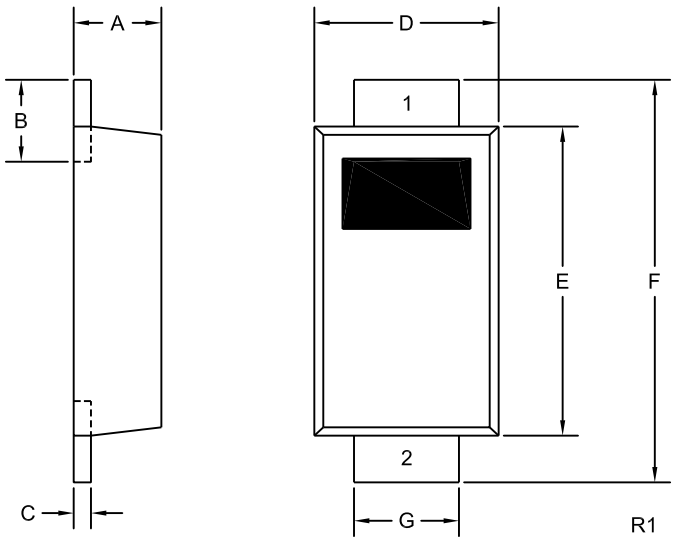
Notes: (1) FR-4 Epoxy PCB with copper mounting pad area of 2.2mm^2
(2) FR-4 Epoxy PCB with copper mounting pad area of 36mm^2

R2 (3-May 2010)

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SOD-123F CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMMR1-02	C02F
CMMR1-04	C04F
CMMR1-06	C06F
CMMR1-10	C10F

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)