CMMR1S-02

SURFACE MOUNT SUPER FAST RECOVERY SILICON RECTIFIER 1.0 AMP, 200 VOLTS



MARKING CODE: CSF02F



DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMMR1S-02 is a 1.0 Amp Silicon Super Fast Recovery Rectifier in the SOD-123F surface mount package. This high quality, well constructed, highly reliable device is designed for use in all types of commercial, industrial, entertainment, computer and automotive applications.

FEATURES:

- Small size (58% smaller than the SMA package)
- 67% lower profile than SMA
- Greatly improved power dissipation per board area compared to the SMA
- Low Forward Voltage
- High Current
- Thermally efficient Flat Lead package design

MAXIMUM RATINGS: $(T_A=25^{\circ}C \text{ unless otherwise noted})$

Peak Repetitive Reverse Voltage	SYMBOL	UNITS	
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
DC Blocking Voltage	V_{R}	200	V
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Forward Current (T _L =110°C)	lo` ´	1.0	Α
Peak Forward Surge Current (8.3ms)	^I FSM	30	Α
Operating and Storage Junction Temperature	T _J ,T _{stg}	-65 to +150	°C
Thermal Resistance	$\theta_{\sf JA}$	180	°C/W

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

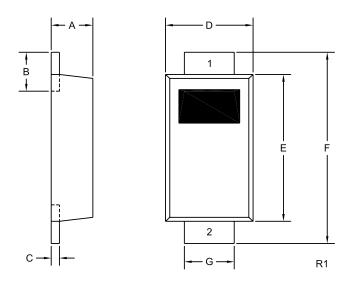
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =200V		10	μΑ
I_{R}	V _R =200V, T _A =100°C		50	μΑ
V_{F}	I _F =1.0A		0.95	V
t _{rr}	I _F =0.5A, I _R =1.0A, Recover to 0.25A		35	ns
CJ	V _R =4.0V, f=1.0MHz	4.0		pF

R1 (25-October 2005)



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SOD-123F CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.035	0.043	0.88	1.08			
В	0.020	0.031	0.50	0.80			
С	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

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