CMMR1S-02

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

SOD-123F CASE

MARKING CODE: CSF02F

Central™
Semiconductor Corp.

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°C unless otherwise noted)

	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)	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_{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	μA
I_R	V_R=200V, T_A=100°C		50	μA
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
C_J	V_R=4.0V, f=1.0MHz	4.0		pF

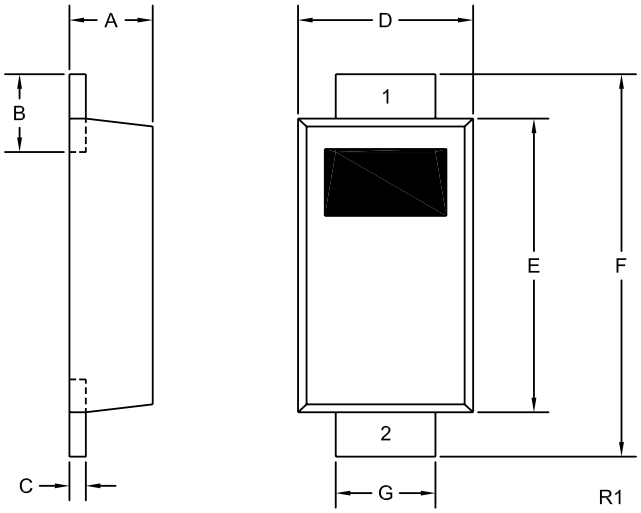
R1 (25-October 2005)

Central™
Semiconductor Corp.

CMMR1S-02

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

SOD-123F CASE - MECHANICAL OUTLINE



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

MARKING CODE: CSF02F

R1 (25-October 2005)