

**CMR1S-01
CMR1S-02**

**SUPER FAST RECOVERY RECTIFIER
1.0 AMP, 100 AND 200 VOLTS**



CentralTM

Semiconductor Corp.

FEATURES:

- FASTER SWITCHING SPEED (35ns Max)
- LOWER V_F (.95V)
- RUNS COOLER THAN ULTRA FAST RECTIFIER
- LOW COST - HIGH RELIABILITY
- GLASS PASSIVATED CHIP
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1.0 Amp Surface Mount Silicon Super Fast Recovery Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODES:

CMR1S-01: CSF01

CMR1S-02: CSF02

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

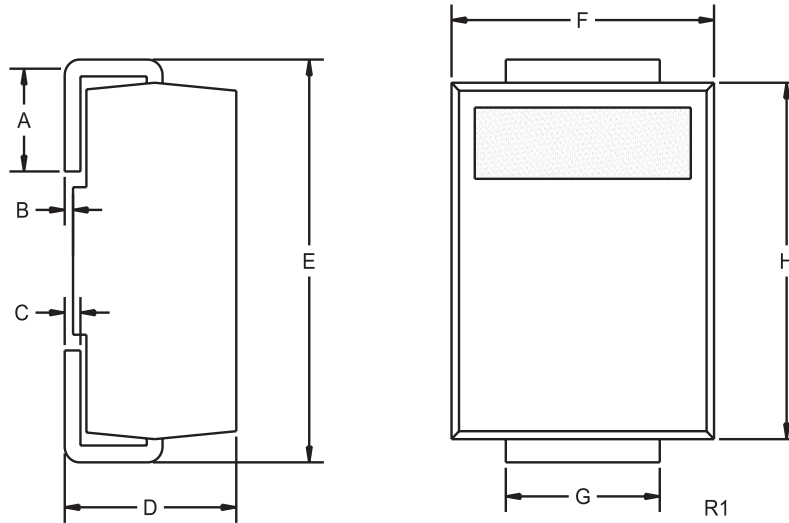
	SYMBOL	CMR1S -01	CMR1S -02	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	V
DC Blocking Voltage	V_R	100	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	V
Average Forward Current	I_O		1.0	A
Peak Forward Surge Current (8.3ms)	I_{FSM}		30	A
Operating and Storage				
Junction Temperature	T_J, T_{stg}	-65 to +150		$^\circ\text{C}$
Thermal Resistance	Θ_{JL}	20		$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R = \text{Rated } V_{RRM}$			5.0	μA
I_R	$V_R = \text{Rated } V_{RRM}, T_A = 100^\circ\text{C}$			500	μA
V_F	$I_F = 1.0\text{A}$			0.95	V
t_{rr}	$I_F = 0.5\text{A}, I_R = 1.0\text{A}, \text{Recover to } 0.25\text{A}$			35	ns
C_J	$V_R = 4.0\text{V}, f = 1.0\text{MHz}$		10		pF

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SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMR1S-01	CSF01
CMR1S-02	CSF02

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	0.20
C	0.006	0.012	0.15	0.30
D	0.086	0.096	2.18	2.44
E	0.200	0.220	5.08	5.59
F	0.130	0.150	3.30	3.81
G	0.077	0.083	1.96	2.11
H	0.160	0.180	4.06	4.57

SMB (REV: R1)