

SURFACE MOUNT SUPER FAST RECOVERY SILICON RECTIFIER 1 AMP, 100 AND 200 VOLTS



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

· Glass passivated chip

mounted on pc board

The CENTRAL SEMICONDUCTOR CMR1S-01 Series 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

• "C" bend construction provides strain relief when

FEATURES:

- Faster switching speed (35ns max)
- Lower V_F (0.95V)
- Runs cooler than Ultra Fast Rectifier
- · Low cost High reliability

MAXIMUM RATINGS: (T_{Δ} =25°C unless otherwise noted)

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	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	IO	1	.0	А	
Peak Forward Surge Current, tp=8.3ms	IFSM	3	80	А	
Operating and Storage Junction Temperature	e TJ, T _{stg}	-65 to	o +150	°C	
Thermal Resistance	Θ _{JL}	2	20	°C/W	

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}		5.0	μA
I _R	V _R =Rated V _{RRM} , T _A =100°C		500	μA
V _F	I _F =1.0A		0.95	V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		35	ns
СЈ	V _R =4.0V, f=1.0MHz	10		pF

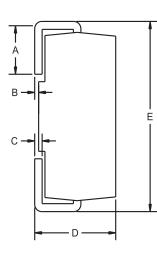
R4 (3-February 2010)

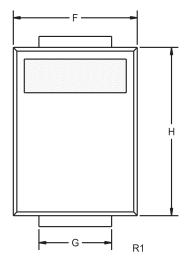




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SMB CASE - MECHANICAL OUTLINE





DEVICE	MARKING CODE
CMR1S-01	CSF01
CMR1S-02	CSF02

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	0.030	0.060	0.76	1.52			
В	0.004	0.008	0.10	0.20			
С	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			
Н	0.160	0.180	4.06	4.57			
SMB (REV/ R1)							

SMB (REV: R1)

R4 (3-February 2010)

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