CMR1S-01 CMR1S-02

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





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DESCRIPTION:

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

FEATURES:

- Faster switching speed (35ns max)
- Lower V_F (0.95V)
- Runs cooler than Ultra Fast Rectifier
- · Low cost High reliability
- · Glass passivated chip
- "C" bend construction provides strain relief when mounted on pc board

MAXIMUM RATINGS: (TA=25°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	IO	1.	.0	Α
Peak Forward Surge Current, tp=8.3ms	^I FSM	3	0	Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to	+150	°C
Thermal Resistance	$\Theta_{\sf JL}$	2	0	°C/W

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

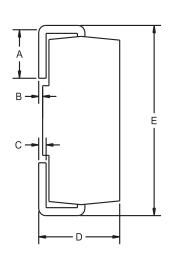
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =100°C		500	μΑ
V_{F}	I _F =1.0A		0.95	V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		35	ns
CJ	V _R =4.0V, f=1.0MHz	10		pF

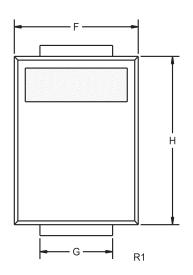
CMR1S-01 CMR1S-02





SMB CASE - MECHANICAL OUTLINE





DEVICE	MARKING CODE	
CMR1S-01	CSF01	
CMR1S-02	CSF02	

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	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			
Е	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)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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