

Excellent Integrated System Limited

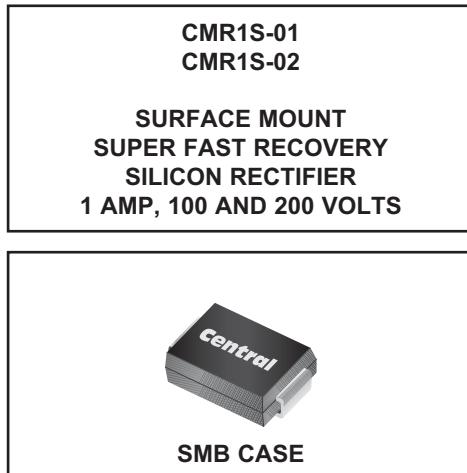
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Central Semiconductor Corp](#)
[CMR1S-02 TR13](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



www.centralsemi.com

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:

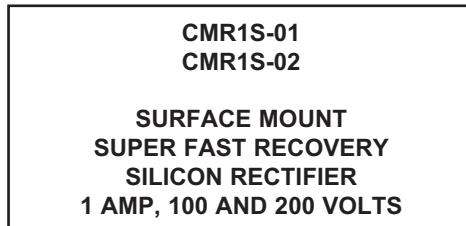
- Faster switching speed (35ns max)
- Lower V_F (0.95V)
- Runs cooler than Ultra Fast Rectifier
- Low cost - High reliability
- Glass passivated chip
- "C" bend construction provides strain relief when mounted on pc board

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

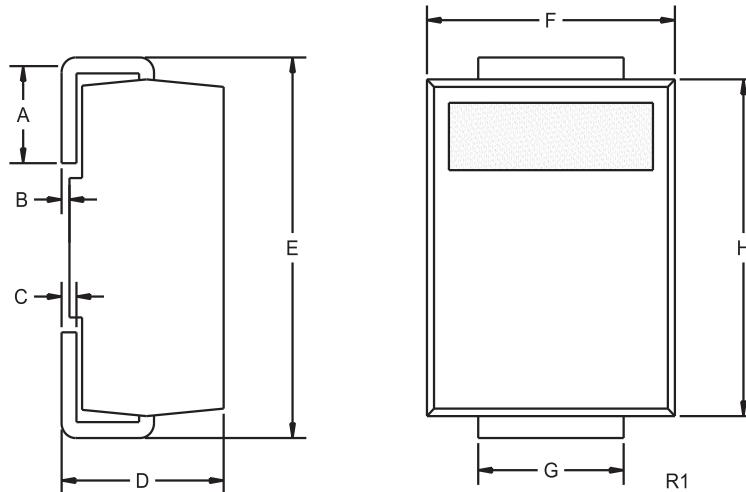
	SYMBOL	CMR1S-01	CMR1S-02	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	200	V
DC Blocking Voltage	V _R	100	200	V
RMS Reverse Voltage	V _{R(RMS)}	70	140	V
Average Forward Current	I _O	1.0		A
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	30		A
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150	°C
Thermal Resistance	θ _{JL}		20	°C/W

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ 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
C _J	V _R =4.0V, f=1.0MHz	10		pF



SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMR1S-01	CSF01
CMR1S-02	CSF02

SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	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)

R4 (3-February 2010)

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 quick 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

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