CMR1U-13M

SURFACE MOUNT SILICON ULTRA FAST RECOVERY RECTIFIER 1.0 AMP, 1300 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1U-13M is a highly reliable 1.0 Amp silicon Ultra Fast Recovery rectifier designed for use in all types of high voltage applications where small size is required.

MARKING CODE: CU13M



APPLICATIONS:

- Freewheeling diode
- Power factor correction
- Power supply snubber

FEATURES:

- High reverse voltage
- Ultra fast recovery time
- Low leakage current

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	1300	V
DC Blocking Voltage	VR	1300	V
RMS Reverse Voltage	V _{R(RMS)}	910	V
Average Forward Current (T _A =75°C)	IO	1.0	А
Peak Forward Surge Current, tp=8.3ms	IFSM	30	А
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C
Thermal Resistance	Θ _{JL}	30	°C/W

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

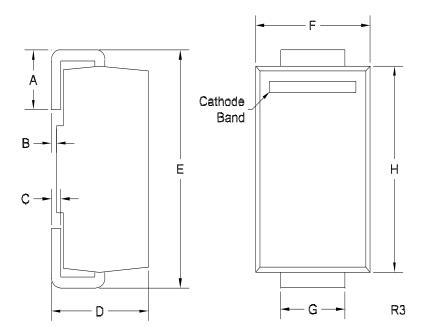
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =1300V			5.0	μA
BVR	I _R =0.5mA	1300			V
V _F	I _F =1.0A			1.9	V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A			75	ns
CJ	V _R =4.0V, f=1.0MHz		6.0		pF



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SMA CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	0.030	0.060	0.76	1.52		
В	0.002	0.008	0.05	0.20		
С	0.006	0.012	0.15	0.30		
D	0.078	0.103	1.98	2.62		
E	0.188	0.220	4.78	5.59		
F	0.090	0.115	2.29	2.92		
G	0.050	0.070	1.27	1.78		
Н	0.157	0.181	3.99	4.60		
SN/A (DE\/.D2)						

SMA (REV:R3)

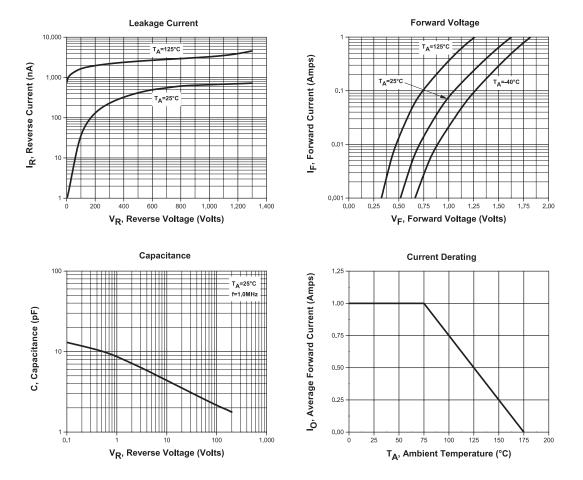
R3 (02-June 2023)



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TYPICAL ELECTRICAL CHARACTERISTICS



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

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

ss your design challenges.

· Custom product packing

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

Custom bar coding for shipments

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

CONTACT US

Corporate Headquarters & Customer Support Team

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