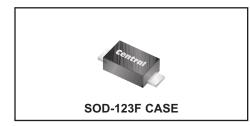


SURFACE MOUNT SILICON GENERAL PURPOSE RECTIFIERS 1 AMP, 200 THRU 1000 VOLT



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMMR1 Series of High Current Density Rectifiers, in a SOD-123F surface mount package are designed for all types of commercial, industrial computer and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	CMMR1-02	CMMR1-04	CMMR1-06	CMMR1-10	UNITS
Peak Repetitive Reverse Voltage	VRRM	200	400	600	1000	V
DC Blocking Voltage	VR	200	400	600	1000	V
RMS Reverse Voltage	V _{R(RMS)}	140	280	420	700	V
Average Forward Current (TL=75°C)	I _O		1.	0		А
Peak Forward Surge Current (8.3ms)	IFSM		3	0		А
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to	+150		°C
Thermal resistance (Note 1)	Θ _{JA}		18	80		°C/W
Thermal resistance (Note 2)	Θ_{JA}		6	5		°C/W

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}		10	μA
I _R	V _R =Rated V _{RRM} , T _A =125°C		50	μA
V _F	I _F =1.0A		1.1	V
СЈ	V _R =4.0V, f=1.0MHz	6.0		pF

Notes: (1) FR-4 Epoxy PCB with copper mounting pad area of 2.2mm² (2) FR-4 Epoxy PCB with copper mounting pad area of 36mm²

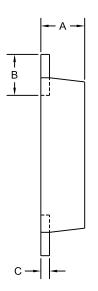
R3 (29-September 2014)

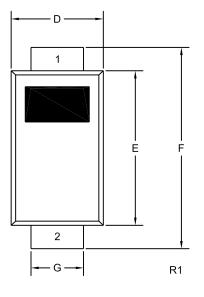


CMMR1 SERIES

SURFACE MOUNT SILICON GENERAL PURPOSE RECTIFIERS 1 AMP, 200 THRU 1000 VOLT

SOD-123F CASE - MECHANICAL OUTLINE





DEVICE	MARKING CODE		
CMMR1-02	C02F		
CMMR1-04	C04F		
CMMR1-06	C06F		
CMMR1-10	C10F		

DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
А	0.035	0.043	0.88	1.08	
В	0.020	0.031	0.50	0.80	
С	0.004	0.008	0.10	0.20	
D	0.065	0.077	1.65	1.95	
E	0.104	0.116	2.65	2.95	
F	0.140	0.156	3.55	3.95	
G	0.030	0.041	0.75	1.05	
SOD-123F (REV:R1)					

() 1)

LEAD CODE: 1) Cathode

2) Anode

R3 (29-September 2014)

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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

Special wafer diffusions

· Custom product packing

- 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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