CMR1U-01M CMR1U-06M CMR1U-02M CMR1U-04M

SURFACE MOUNT SILICON ULTRA FAST RECOVERY RECTIFIERS 1.0 AMP, 100 THRU 1000 VOLT





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1U-01M series 1.0 Amp surface mount Ultra Fast Recovery silicon rectifier is a highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications where small size is required. The SMA case occupies 30% less board space than the SMB case.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- · High reliability
- · Glass passivated chip
- · Special selections available

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

		CIVIRTU	CIVIRTU	CIVIRTU	CIVIRTU	CIVIRTU	
	SYMBOL	-01M	-02M	-04M	-06M	-10M	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	1000	V
DC Blocking Voltage	V_{R}	100	200	400	600	1000	V
RMS Reverse Voltage	V _{R(RMS)}	70	140	280	420	700	V
Average Forward Current (T _A =75°C)	lo			1.0			Α
Peak Forward Surge Current, tp=8.3ms	IFSM			30			Α
Operating and Storage Junction Temperatur	e T _J , T _{stg}		-	65 to +17	5		°C
Thermal Resistance	⊝یا_			30			°C/W

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

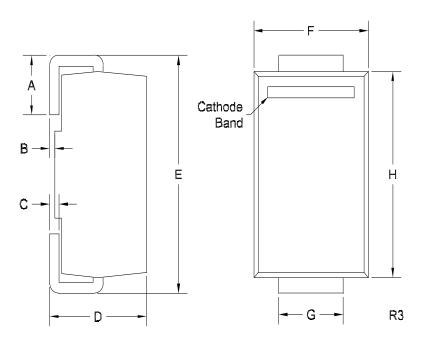
SYMBOL	TEST CONDITIONS	TYP	MAX 5.0	UNITS
^I R	V _R =Rated V _{RRM}		5.0	μA
٧ _F	I _F =1.0A, (CMR1U-01M, -02M)		1.00	V
V_{F}	I _F =1.0A, (CMR1U-04M)		1.25	V
V_{F}	I _F =1.0A, (CMR1U-06M)		1.40	V
VF	I _F =1.0A, (CMR1U-10M)		1.70	V
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} =0.25A (CMR1U-01M, -02M)		35	ns
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} =0.25A (CMR1U-04M)		50	ns
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} =0.25A (CMR1U-06M)		75	ns
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} =0.25A (CMR1U-10M)		100	ns
t _{fr}	I _F =1.0A, V _{fr} =2.0V	175	250	ns

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE			
CMR1U-01M	CU01M			
CMR1U-02M	CU02M			
CMR1U-04M	CU04M			
CMR1U-06M	CU06M			
CMR1U-10M	CU10M			

DIMENSIONS						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	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		
Е	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		
C144 (DELL DO)						

SMA (REV:R3)

R7 (02-June 2023)

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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