

CMR1U-01 CMR1U-06
 CMR1U-02 CMR1U-08
 CMR1U-04 CMR1U-10

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



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1U-01 series 1 Amp silicon Ultra Fast Recovery rectifier is a highly reliable component designed for use in all types of commercial, industrial, entertainment, computer and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE



SMB CASE

FEATURES:

- Special selections available
- 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	<u>-01</u>	<u>-02</u>	<u>-04</u>	<u>-06</u>	<u>-08</u>	<u>-10</u>	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	V
Average Forward Current ($T_A=75^\circ\text{C}$)	I_O				1.0			A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}				30			A
Operating and Storage Junction Temperature	T_J, T_{stg}				-65 to +175			$^\circ\text{C}$
Thermal Resistance	θ_{JL}				20			$^\circ\text{C/W}$

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

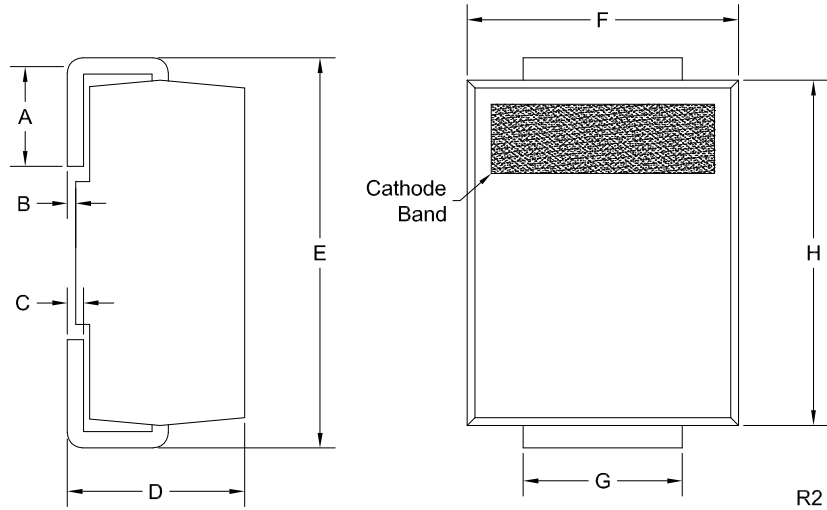
SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$	5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$	100	μA
V_F	$I_F=1.0\text{A}, (\text{CMR1U-01, CMR1U-02})$	1.0	V
V_F	$I_F=1.0\text{A}, (\text{CMR1U-04})$	1.25	V
V_F	$I_F=1.0\text{A}, (\text{CMR1U-06})$	1.40	V
V_F	$I_F=1.0\text{A}, (\text{CMR1U-08, CMR1U-10})$	1.70	V
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A} (\text{CMR1U-01, -02, -04})$	50	ns
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A} (\text{CMR1U-06, -08, -10})$	100	ns

CMR1U-01	CMR1U-06
CMR1U-02	CMR1U-08
CMR1U-04	CMR1U-10



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SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMR1U-01	CU01
CMR1U-02	CU02
CMR1U-04	CU04
CMR1U-06	CU06
CMR1U-08	CU08
CMR1U-10	CU10

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.000	0.008	0.00	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	0.191	4.06	4.85

SMB (REV: R2)

R6 (4-September 2018)

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

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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