THE DATASHEET OF

CMR2U-02 TR13

CMR2U-01 CMR2U-06
CMR2U-02 CMR2U-08
CMR2U-04 CMR2U-10

SURFACE MOUNT SILICON ULTRA FAST RECOVERY RECTIFIERS 2.0 AMP, 100 THRU 1000 VOLT



SMB CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR2U-01 series 2.0 Amp surface mount 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

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°C unless otherwise noted)

	SYMBOL	CMR2U -01	CMR2U -02	CMR2U -04	CMR2U -06	CMR2U -08	CMR2U -10	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_L=90°C)	I_O			2.0				A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}			50				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°C unless otherwise noted)

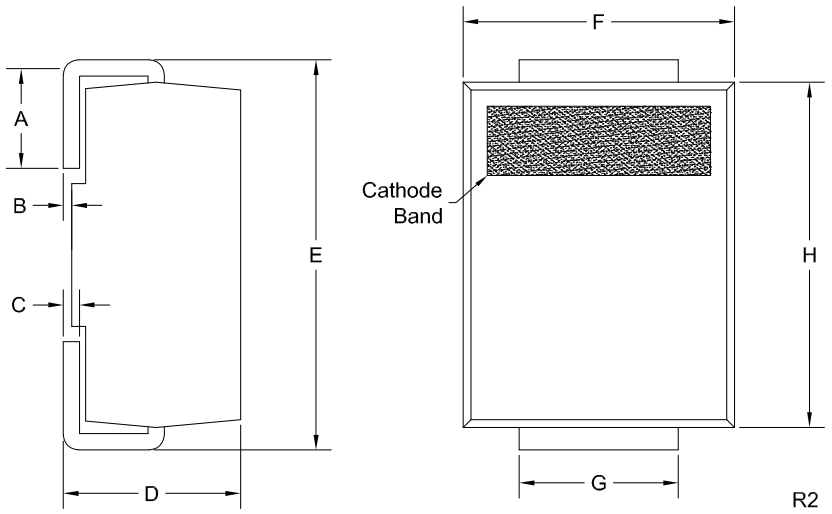
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	V_R=Rated V_{RRM}		10	μA
I_R	V_R=Rated V_{RRM}, T_A=100°C		200	μA
V_F	I_F=2.0A, (CMR2U-01, -02)		1.0	V
V_F	I_F=2.0A, (CMR2U-04)		1.4	V
V_F	I_F=2.0A, (CMR2U-06, -08, -10)		1.7	V
t_{rr}	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A (CMR2U-01, -02, -04)		50	ns
t_{rr}	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A 0.25A (CMR2U-06, -08, -10)		100	ns
C_J	V_R=4.0V, f=1.0MHz	28		pF

R5 (4-September 2018)

CMR2U-01 CMR2U-06
CMR2U-02 CMR2U-08
CMR2U-04 CMR2U-10

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

SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMR2U-01	CU201
CMR2U-02	CU202
CMR2U-04	CU204
CMR2U-06	CU206
CMR2U-08	CU208
CMR2U-10	CU210

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

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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- Central Semiconductor Corp Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management