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

SURFACE MOUNT ULTRA FAST RECOVERY SILICON RECTIFIER 2 AMP, 100 THRU 1000 VOLTS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR2U-01 Series 2.0 Amp Surface Mount Silicon Ultra Fast Recovery Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- · Low cost
- Special selections available
- · High reliability
- Superior lot to lot consistency
- · Glass passivated chip
- "C" bend construction provides strain relief when mounted on pc board

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

		CMR2U	CMR2U	CMR2U	CMR2U	CMR2U	CMR2U	
	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 _L =90°C)	Ìo			2.0				Α
Peak Forward Surge Current, tp=8.3ms	IFSM			50				Α
Operating and Storage Junction Temperature	T _J , T _{stg}		-	65 to +15	0			°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	μΑ
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 _{II} =0.25A 0.25A (CMR2U-06, -08, -10)		100	ns
CJ	V _R =4.0V, f=1.0MHz	28		pF

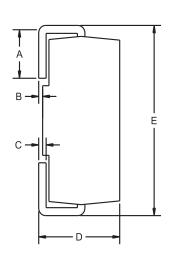
R4 (21-October 2010)

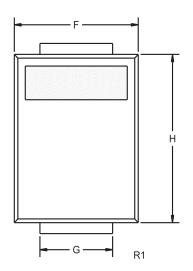
CMR2U-01 CMR2U-06 CMR2U-02 CMR2U-08

CMR2U-04 CMR2U-10

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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						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.030	0.060	0.76	1.52		
В	0.004	0.008	0.10	0.20		
С	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		
Н	0.160	0.180	4.06	4.57		

SMB (REV: R1)

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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