CMR3U-01M CMR3U-06M CMR3U-02M CMR3U-04M

SURFACE MOUNT ULTRA FAST RECOVERY SILICON RECTIFIER 3 AMP, 100 THRU 1000 VOLTS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR3U-01M Series 3.0 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
- · High reliability
- · Glass passivated chip
- Special selections available
- Superior lot to lot consistency
- "C" bend construction provides strain relief when mounted on PC board

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

	SYMBOL	CMR3U -01M	CMR3U -02M	CMR3U -04M	CMR3U -06M	CMR3U -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			3.0			Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}			100			Α
Operating and Storage Junction Temperature	T _J , T _{stg}		-	65 to +17	5		°C
Thermal Resistance	Θ JL			30			°C/W

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

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}	5.0	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =100°C	500	μΑ
V_{F}	I _F =3.0A (CMR3U-01M, -02M)	1.00	V
VF	I _F =3.0A (CMR3U-04M)	1.25	V
٧F	I _F =3.0A (CMR3U-06M)	1.40	V
V_{F}	I _F =3.0A (CMR3U-10M)	2.00	V
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A (CMR3U-01M, -02M, -04M)	50	ns
t _{rr}	I _F =0.5A, I _R =1.0A, I _{II} =0.25A (CMR3U-06M, -10M)	100	ns

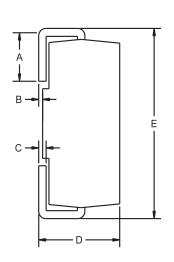
R3 (8-February 2010)

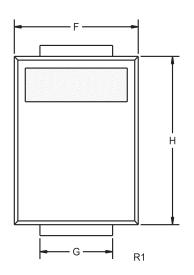
CMR3U-01M CMR3U-06M CMR3U-02M CMR3U-10M

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SMB CASE - MECHANICAL OUTLINE





DEVICE	MARKING CODE		
CMR3U-01M	CU301M		
CMR3U-02M	CU302M		
CMR3U-04M	CU304M		
CMR3U-06M	CU306M		
CMR3U-10M	CU310M		

DIMENSIONS							
	INCHES		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			
Е	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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

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