



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 <u>-01M</u>	CMR3U <u>-02M</u>	CMR3U <u>-04M</u>	CMR3U <u>-06M</u>	CMR3U <u>-10M</u>	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	200	400	600	1000	V
DC Blocking Voltage	VR	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)	IO			3.0			А
Peak Forward Surge Current, tp=8.3ms	IFSM			100			А
Operating and Storage Junction Temperature	TJ, 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	μA
I _R	V _R =Rated V _{RRM} , T _A =100°C	500	μA
VF	I _F =3.0A (CMR3U-01M, -02M)	1.00	V
VF	I _F =3.0A (CMR3U-04M)	1.25	V
VF	I _F =3.0A (CMR3U-06M)	1.40	V
VF	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 _{rr} =0.25A (CMR3U-06M, -10M)	100	ns

R3 (8-February 2010)



www.centralsemi.com

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.

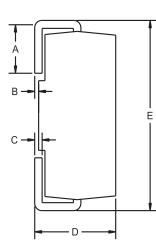
MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

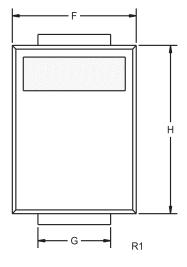




SURFACE MOUNT ULTRA FAST RECOVERY SILICON RECTIFIER 3 AMP, 100 THRU 1000 VOLTS

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		
A	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		
SMD (DE)/- D1)						

SMB (REV: R1)

R3 (8-February 2010)

www.centralsemi.com

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

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

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: <u>www.centralsemi.com/terms</u>

www.centralsemi.com

