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

SURFACE MOUNT SILICON ULTRA FAST RECOVERY RECTIFIERS 1 AMP, 100 THRU 1000 VOLTS



SMB CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR1U-01 series 1 Amp 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:

- 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=25ºC unless otherwise noted)

		CMR1U						
	SYMBOL	-01	-02	-04	-06	-08	-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_A=75ºC)	I_O			1.0				A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}			30				A
Operating and Storage Junction Temperature	T_J, T_{stg}			-65 to +175				ºC
Thermal Resistance	Θ_{JL}			20				ºC/W

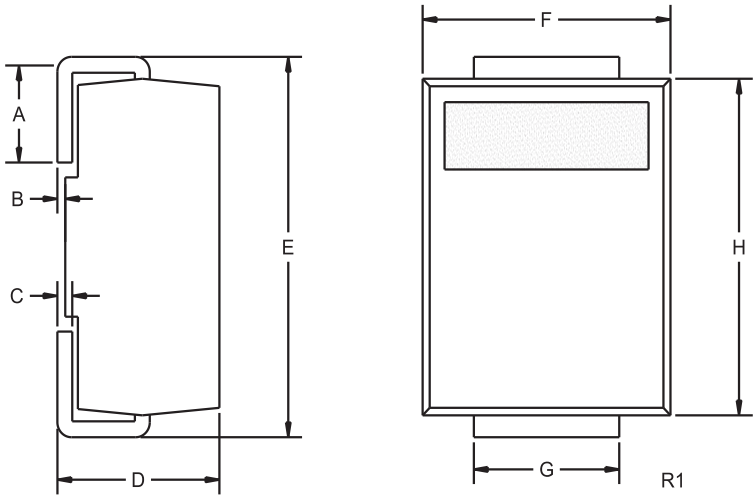
ELECTRICAL CHARACTERISTICS: (T_A=25ºC) unless otherwise noted)

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

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

SURFACE MOUNT SILICON
ULTRA FAST RECOVERY RECTIFIERS
1 AMP, 100 THRU 1000 VOLTS

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

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	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	0.180	4.06	4.57

SMB (REV: R1)