

CMR2U-01
CMR2U-02
CMR2U-04
CMR2U-06

ULTRA FAST RECOVERY RECTIFIER
2.0 AMP, 100 THRU 600 VOLTS



SMB CASE

CentralTM
Semiconductor Corp.

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

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 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.

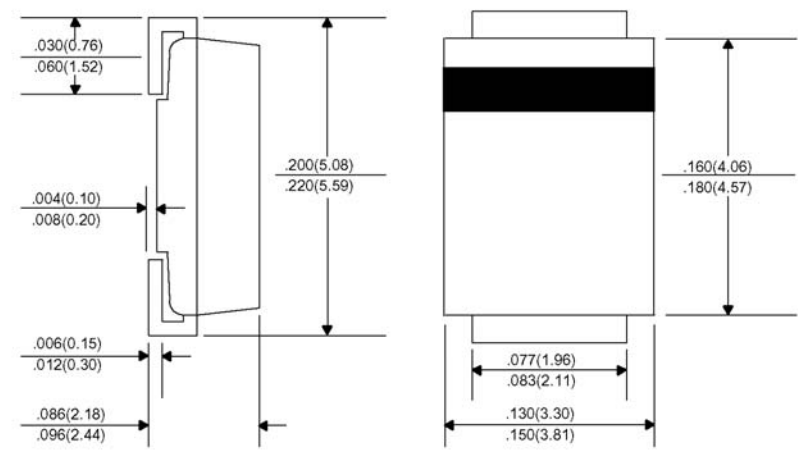
MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL	CMR2U-01	CMR2U-02	CMR2U-04	CMR2U-06	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	V
DC Blocking Voltage	V_R	100	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	V
Average Forward Current ($T_A=50^{\circ}\text{C}$)	I_O			2.0		A
Peak Forward Surge Current (8.3ms)	I_{FSM}			50		A
Operating and Storage						
Junction Temperature	T_J, T_{stg}		-65 to +150			$^{\circ}\text{C}$
Thermal Resistance	θ_{JL}		20			$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$			10	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$			50	μA
V_F	$I_F=2.0\text{A}, (\text{CMR2U-01, CMR2U-02})$			1.00	V
V_F	$I_F=2.0\text{A}, (\text{CMR2U-04})$			1.25	V
V_F	$I_F=2.0\text{A}, (\text{CMR2U-06})$			1.40	V
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, \text{Recover to } 0.25\text{A}$			50	ns
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$		50		pF

All dimensions in inches (mm).



Marking Codes:

DEVICE	MARKING CODE
CMR2U-01	CU201
CMR2U-02	CU202
CMR2U-04	CU204
CMR2U-06	CU206