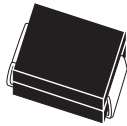




CMR2U-01  
 CMR2U-02  
 CMR2U-04  
 CMR2U-06

**ULTRA FAST RECOVERY RECTIFIER**  
**2.0 AMP, 100 THRU 600 VOLTS**



**SMB CASE**

# Central<sup>TM</sup>

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.

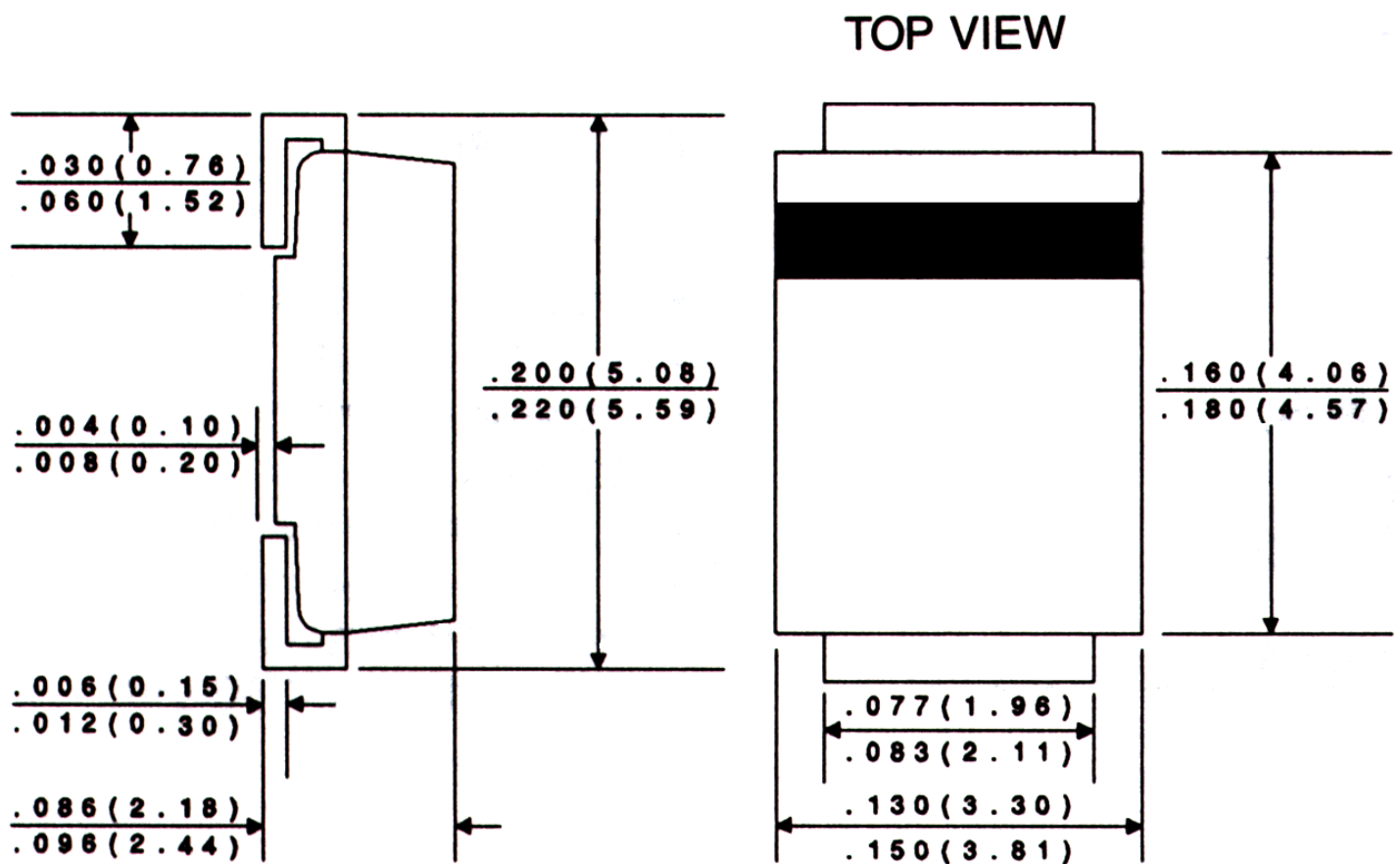
## MAXIMUM RATINGS: (T<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL	CMR2U-01	CMR2U-02	CMR2U-04	CMR2U-06	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	V
DC Blocking Voltage	V <sub>R</sub>	100	200	400	600	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	280	420	V
Average Forward Current (T <sub>A</sub> =50°C)	I <sub>O</sub>			2.0		A
Peak Forward Surge Current (8.3ms)	I <sub>FSM</sub>			50		A
Operating and Storage						
Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>		-65 to +150			°C
Thermal Resistance	θ <sub>JL</sub>		20			°C/W

## ELECTRICAL CHARACTERISTICS: (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>			10	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =100°C			50	μA
V <sub>F</sub>	I <sub>F</sub> =2.0A, (CMR2U-01, CMR2U-02)			1.00	V
V <sub>F</sub>	I <sub>F</sub> =2.0A, (CMR2U-04)			1.25	V
V <sub>F</sub>	I <sub>F</sub> =2.0A, (CMR2U-06)			1.40	V
t <sub>rr</sub>	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, Recover to 0.25A			50	ns
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz		50		pF

All dimensions in inches (mm).



**Marking Codes:**

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