



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.

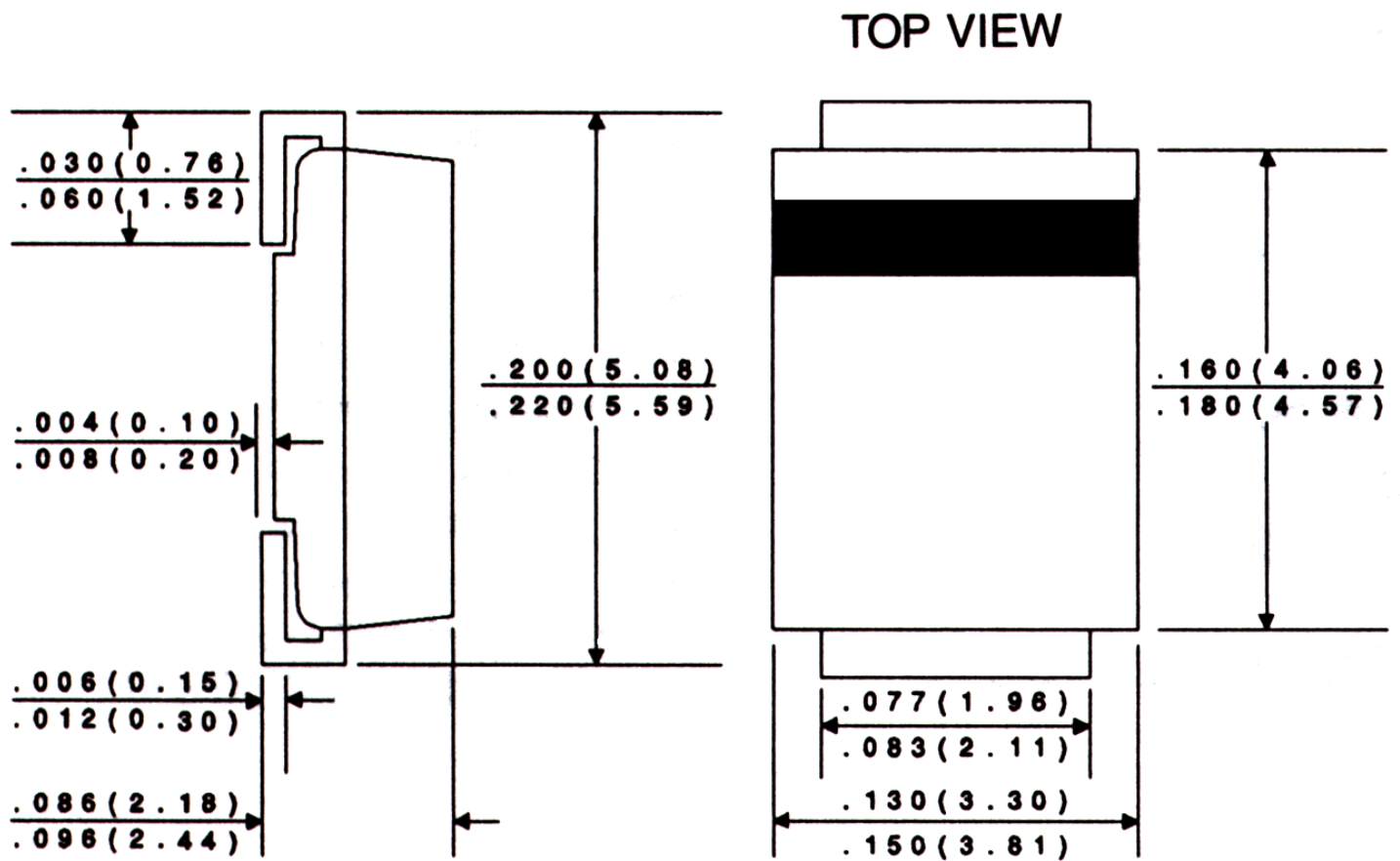
## MAXIMUM RATINGS: ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

	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	$\Theta_{JL}$		20			$^{\circ}\text{C/W}$

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

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