CMR3U-01
CMR3U-02
CMR3U-04
CMR3U-06
CMR3U-10

ULTRA FAST RECOVERY RECTIFIER
3.0 AMP, 100 THRU 1000 VOLTS

SMC CASE

Central™
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 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 16mm Tape and Reel (3000/ 13" Reel), add TR13 suffix to part number.

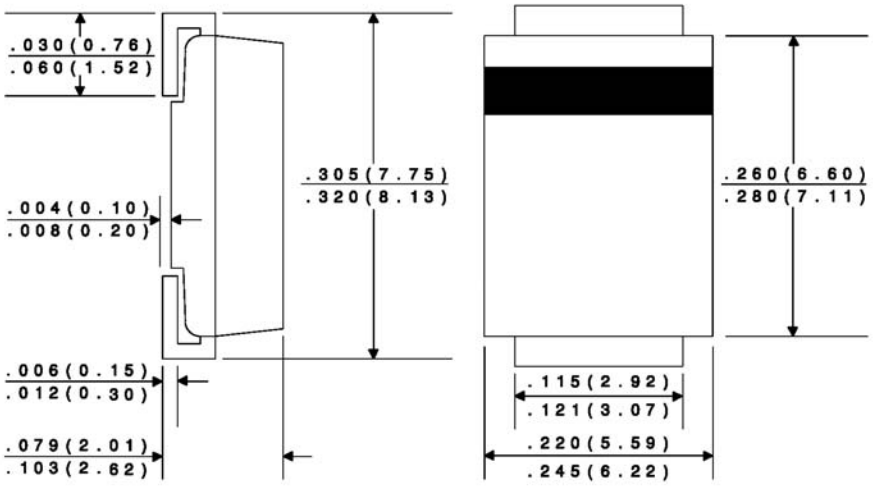
MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	CMR3U -01	CMR3U -02	CMR3U -04	CMR3U -06	CMR3U -10	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	1000	V
DC Blocking Voltage	V_R	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)	I_O			3.0			A
Peak Forward Surge Current (8.3ms)	I_{FSM}			150			A
Operating and Storage Junction Temperature	T_J,T_{stg}			-65 to +175			°C
Thermal Resistance	Θ_{JL}			10			°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	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
V_F	I_F=3.0A, (CMR3U-01, CMR3U-02)		1.00	V
V_F	I_F=3.0A, (CMR3U-04)		1.25	V
V_F	I_F=3.0A, (CMR3U-06)		1.40	V
V_F	I_F=3.0A, (CMR3U-10)		1.70	V
t_{rr}	I_F=500mA, I_R=1.0A, Irr=250mA (CMR3U-01, -02, -04)		50	ns
t_{rr}	I_F=500mA, I_R=1.0A, Irr=250mA (CMR3U-06, -10)		100	ns

All dimensions in inches (mm).



Marking Codes:

DEVICE	MARKING CODE
CMR3U-01	CU301
CMR3U-02	CU302
CMR3U-04	CU304
CMR3U-06	CU306
CMR3U-10	CU310