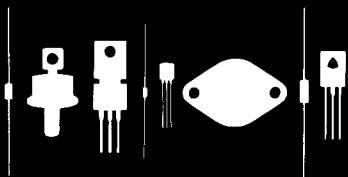


The Central Semiconductor Corp.
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 145 Adams Avenue
 Hauppauge, New York 11788



CR8U SERIES

8.0 AMP, 100 THRU 600 VOLTS
ULTRA FAST SILICON RECTIFIER

T0-220* CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR8U series types are 8.0 amp ultra fast recovery silicon rectifiers manufactured using glass passivated chips designed for applications requiring extremely fast reverse recovery times at high current and voltages.

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

	SYMBOL	CR8U-010	CR8U-020	CR8U-040	CR8U-060	UNIT
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_{RMS}	70	140	280	420	V
Average Forward Current	I_O		8.0			A
Peak Forward Surge Current (8.3 ms single half sine-wave)	I_{FSM}		125			A
Operating and Storage Junction Temperature	T_J, T_{STG}		-65 TO +150			$^\circ\text{C}$

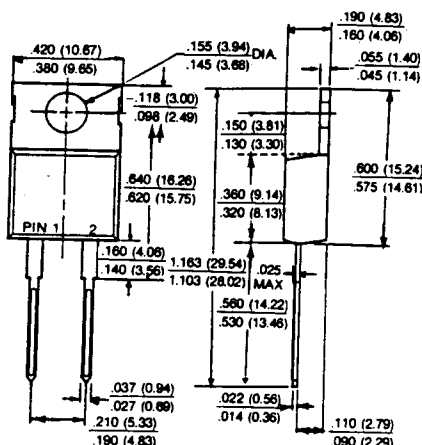
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
V_F	$I_F=8.0\text{A}$ (CR8U-010, -020)		1.0	V
V_F	$I_F=8.0\text{A}$ (CR8U-040)		1.3	V
V_F	$I_F=8.0\text{A}$ (CR8U-060)		1.5	V
I_R	$V_R=\text{Rated } V_{RRM}$		10	μA
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}$, Recovery to 0.25A (CR8U-010, -020)		35	ns
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}$, Recovery to 0.25A (CR8U-040, -060)		50	ns

PIN CONFIGURATION

PIN 1/TAB: CATHODE

PIN 2: ANODE



*TWO LEADED

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824