

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA

Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

CR80-010 SERIES

**80 AMP GENERAL PURPOSE
SILICON RECTIFIER
100 THRU 1200 VOLTS**

JEDEC DO-5 CASEDESCRIPTION

The CENTRAL SEMICONDUCTOR CR80-010 Series types are 80 Amp stud mounted silicon rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications.

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

	<u>SYMBOL</u>	CR80 <u>-010</u>	CR80 <u>-020</u>	CR80 <u>-040</u>	CR80 <u>-060</u>	CR80 <u>-080</u>	CR80 <u>-100</u>	CR80 <u>-120</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	V_R	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	840	V
Average Forward Current ($T_C = 150^\circ\text{C}$)	I_O				80				A
Peak Forward Surge Current	I_{FSM}				1500				A
Operating and Storage Junction Temperature	T_J, T_{stg}				-65 to +200				$^\circ\text{C}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNITS</u>
V_F	$I_F = 80\text{A}$		1.2	V
I_R	$V_R = \text{Rated } V_{RRM}$		100	μA
I_R	$V_R = \text{Rated } V_{RRM}, T_C = 150^\circ\text{C}$		4.0	mA

NOTE: Normal Polarity: Cathode to Stud (Case)
For Reverse Polarity add "R" Suffix (Ex: CR80-040R)