

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA

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

Manufacturers of World Class Discrete Semiconductors

CBR6-010 SERIES

SILICON BRIDGE RECTIFIER
6.0 AMPS, 100 THRU 1000 VOLTS

CASE CM

DESCRIPTION

The CENTRAL SEMICONDUCTOR CBR6-010 Series types are Silicon Single Phase Full Wave Bridge Rectifiers designed for general purpose applications.

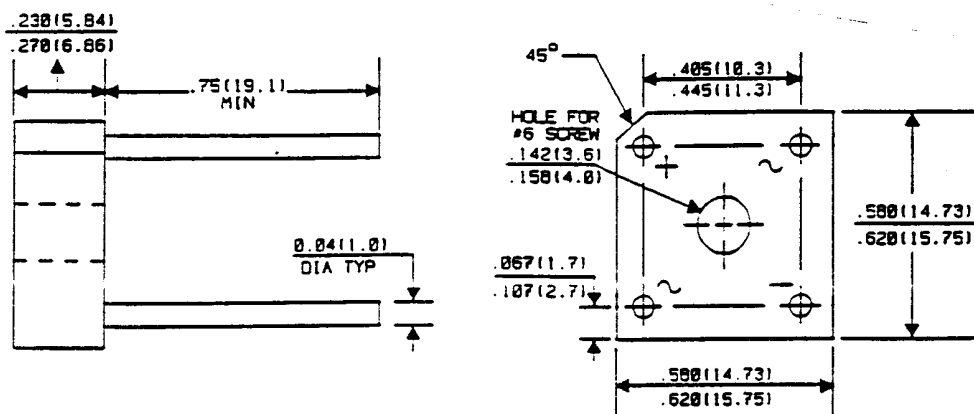
MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL	CBR6-010	CBR6-020	CBR6-040	CBR6-060	CBR6-080	CBR6-100	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_R(\text{RMS})$	70	140	280	420	560	700	V
Average Forward Current *								
$T_C=80^{\circ}\text{C}$	I_O				6.0			A
$T_A=30^{\circ}\text{C}$	I_O				3.0			A
Peak Forward Surge Current	I_{FSM}				125			A
Operating and Storage								
Junction Temperature	T_J, T_{stg}				-65 to +150			$^{\circ}\text{C}$
Thermal Resistance	θ_{JC}				5.0			$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V_F	$I_F=3.0\text{A}$		1.1	V
I_R	$V_R=\text{Rated } V_{RRM}$		10	μA

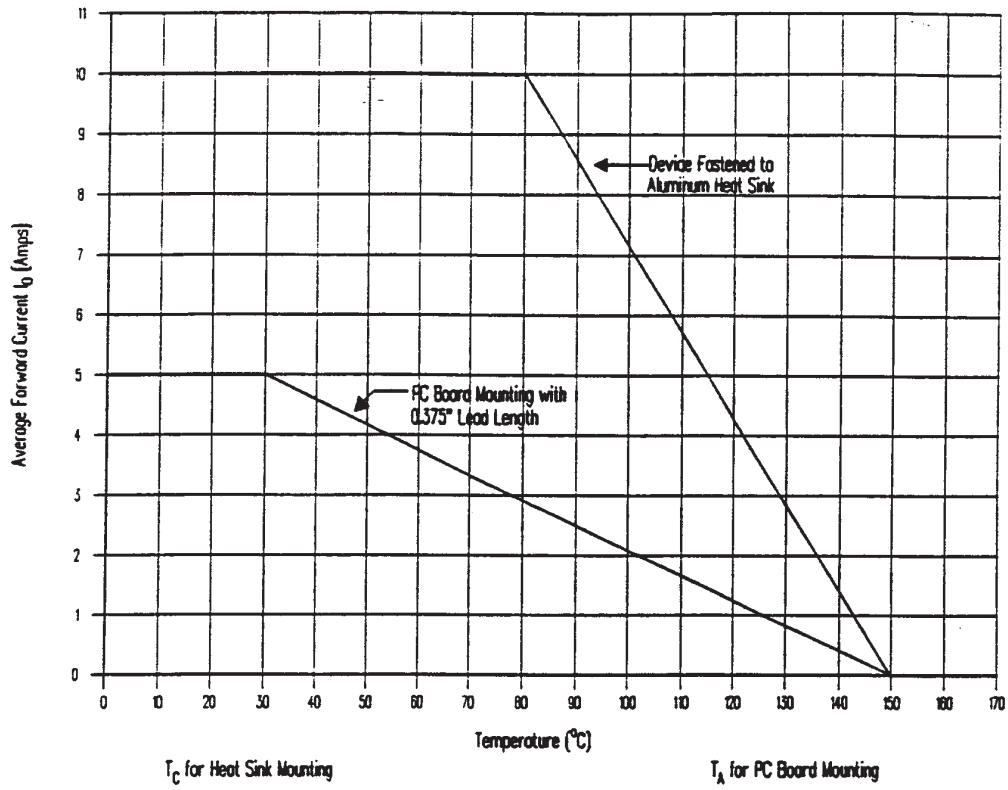
* SEE REVERSE FOR CURVE.



DIMENSIONS IN INCHES (mm).

Derating Curve for Average Forward Current

(60 Hz Resistive or Inductive Load)



Typical Instantaneous Forward

Characteristics Per Bridge Element

