

CentralTM Semiconductor Corp.

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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.

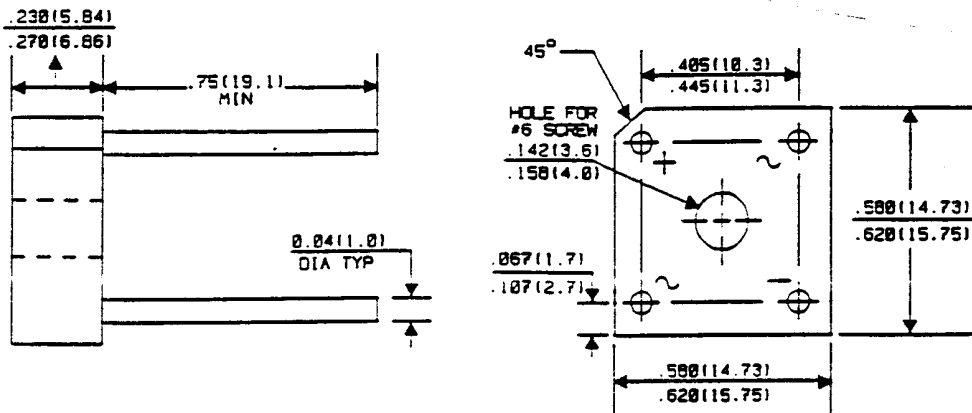
MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

	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(RMS)}	70	140	280	420	560	700	V
Average Forward Current *								
T _C =80°C	I _O				6.0			A
T _A =30°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			°C
Thermal Resistance	θ _{JC}				5.0			°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V _F	I _F =3.0A		1.1	V
I _R	V _R =Rated V _{RRM}		10	µA

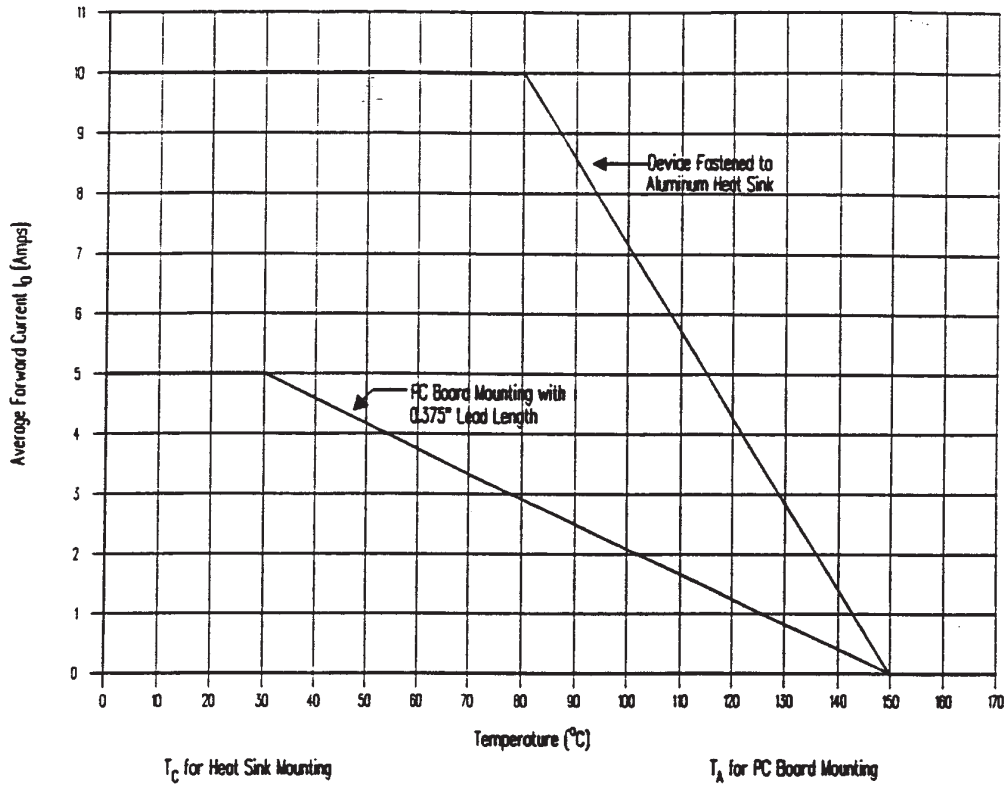
* SEE REVERSE FOR CURVE.



DIMENSIONS IN INCHES (mm).

Derating Curve for Average Forward Current

(60 Hz Resistive or Inductive Load)



Typical Instantaneous Forward Characteristics Per Bridge Element

