

# Central<sup>TM</sup> 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.

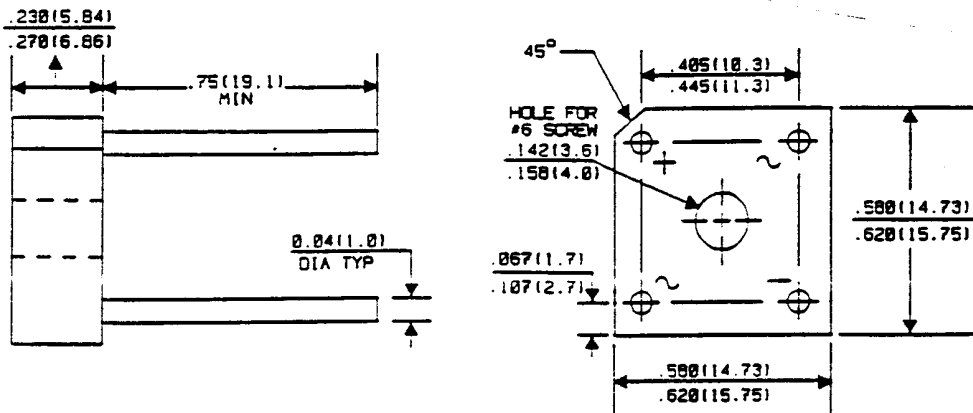
### MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL	CBR6 -010	CBR6 -020	CBR6 -040	CBR6 -060	CBR6 -080	CBR6 -100	UNITS
Peak Repetitive Reverse Voltage	V <sub>R</sub> RM	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R</sub> (RMS)	70	140	280	420	560	700	V
Average Forward Current *								
T <sub>C</sub> =80°C	I <sub>O</sub>				6.0			A
T <sub>A</sub> =30°C	I <sub>O</sub>				3.0			A
Peak Forward Surge Current	I <sub>FSM</sub>				125			A
Operating and Storage								
Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>				-65 to +150			°C
Thermal Resistance	θ <sub>JC</sub>				5.0			°C/W

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V <sub>F</sub>	I <sub>F</sub> =3.0A		1.1	V
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>R</sub> RM		10	µA

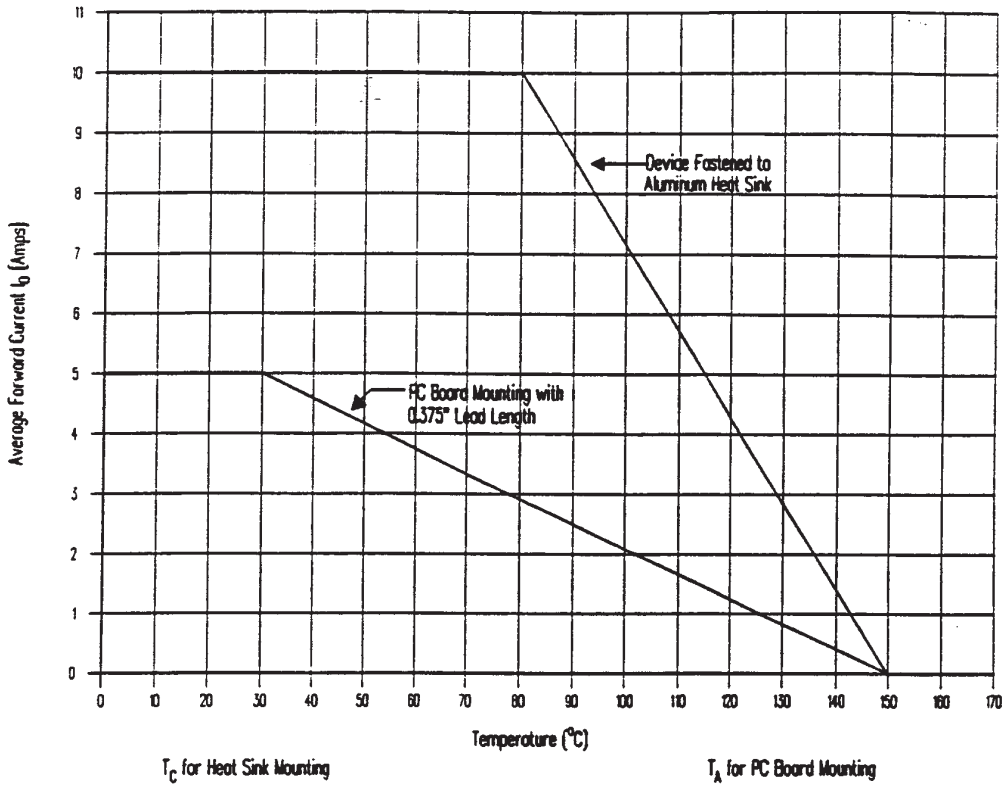
\* SEE REVERSE FOR CURVE.



DIMENSIONS IN INCHES (mm).

### Derating Curve for Average Forward Current

( 60 Hz Resistive or Inductive Load )



### Typical Instantaneous Forward Characteristics Per Bridge Element

