

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.

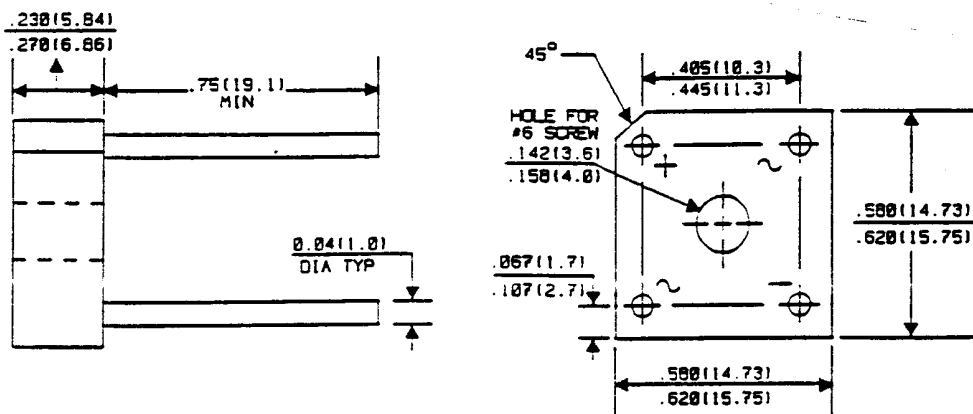
MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

| | 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 |

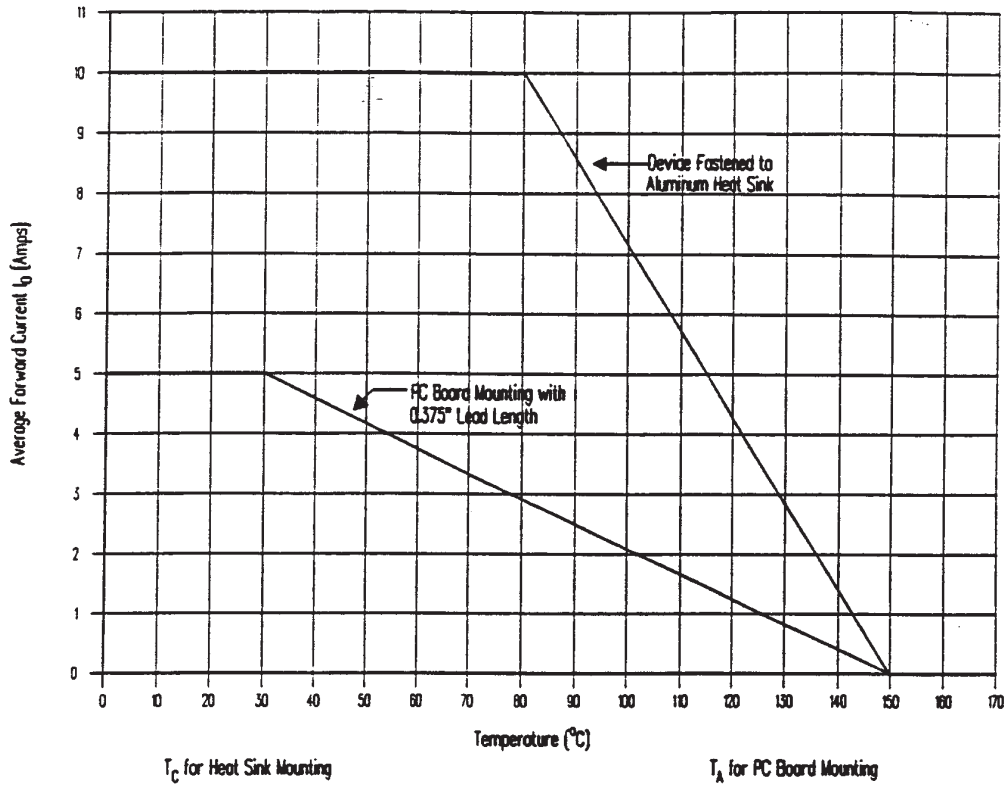
* SEE REVERSE FOR CURVE.



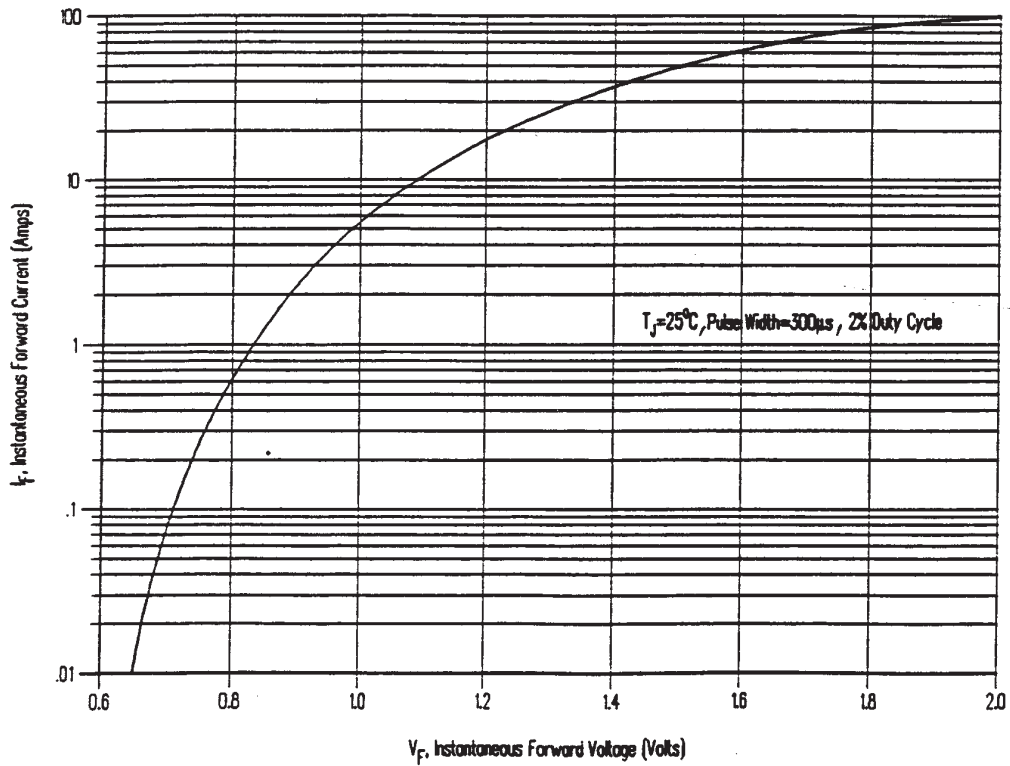
DIMENSIONS IN INCHES (mm).

Derating Curve for Average Forward Current

(60 Hz Resistive or Inductive Load)



Typical Instantaneous Forward Characteristics Per Bridge Element





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