

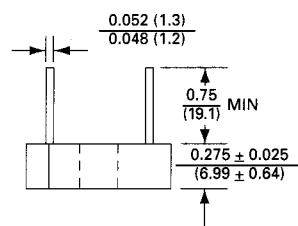
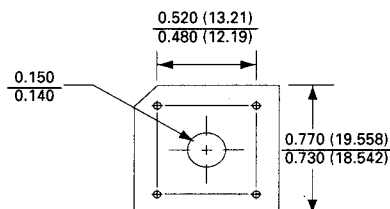
BR10 ...BR1010

10A SINGLE - PHASE SILICON BRIDGE

Features

- Surge overload rating - 200 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver Plated Copper leads
- Mounting Position: Any
- Ceramic case

VOLTAGE RANGE
50 to 1000 Volts PRV
CURRENT
10 Amperes



Polarity shown on side of case;
positive lead by beveled corner.

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

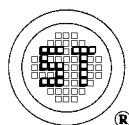
Rating at 25 °C ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.

	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Max RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Output Current at a	10.0							A
$T_c = 50\text{ }^{\circ}\text{C}$	6.0							A
$T_c = 100\text{ }^{\circ}\text{C}^*$	6.0							A
$T_A = 50\text{ }^{\circ}\text{C}^{**}$								
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load	200							A
Maximum Forward Voltage Drop per element at 5.0A Peak	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage per element	10.0							μA
$T_A = 25\text{ }^{\circ}\text{C}$	1.0							mA
$T_A = 100\text{ }^{\circ}\text{C}$								
Operating Temperature Range T_c	-55 to + 125							$^{\circ}\text{C}$
Storage Temperature Range T_A	-55 to + 150							$^{\circ}\text{C}$

NOTES: * Unit mounted on metal chassis

** Unit mounted on P.C. board



SEMTECH ELECTRONICS LTD.

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10A SINGLE - PHASE SILICON BRIDGE

RATING AND CHARACTERISTICS CURVES
BR10 SERIES

FIG. 1-MAXIMUM FORWARD SURGE CURRENT

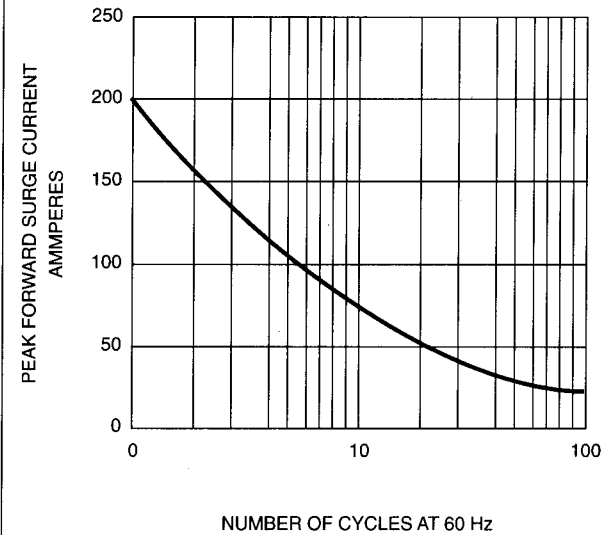


FIG. 2-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

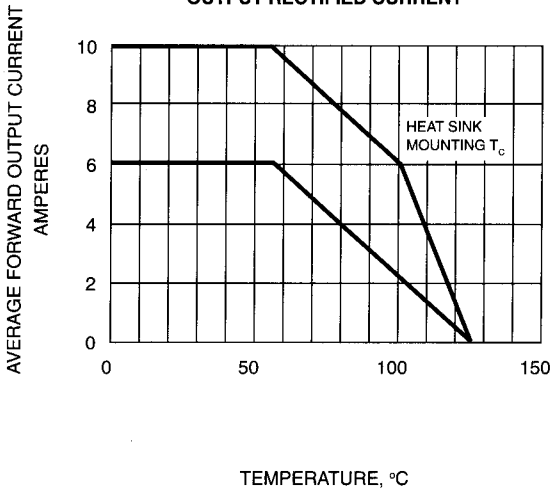


FIG. 3-TYPICAL FORWARD
CHARACTERISTICS

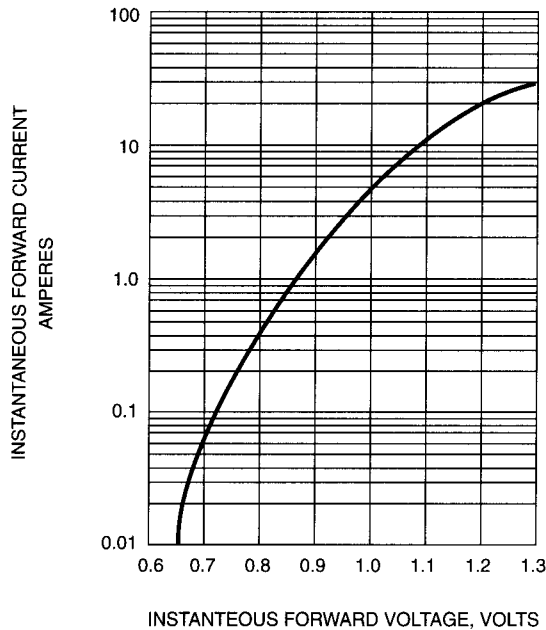


FIG. 4-TYPICAL REVERSE
CHARACTERISTICS

