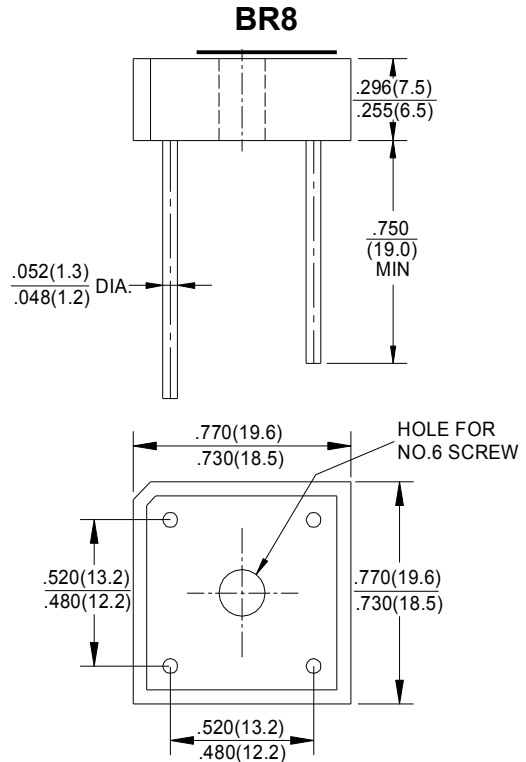


## SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts  
FORWARD CURRENT - 8.0 Amperes

### FEATURES

- Surge overload rating -200 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver plated copper leads
- Mounting position: Any



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.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	BR8005	BR801	BR802	BR804	BR806	BR808	BR810	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Output Current at T <sub>c</sub> =100°C (Note1) T <sub>A</sub> =40°C (Note2)	I <sub>(AV)</sub>	8.0 3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	200							A
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	V <sub>F</sub>	1.0							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element T <sub>A</sub> =25°C T <sub>A</sub> =100°C	I <sub>R</sub>	10.0 1.0							μA mA
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +125							°C

Notes:1.Unit mounted on metal chassis

2. Unit mounted on P.C. board

# RATING AND CHARACTERISTIC CURVES

## BR8 SERIES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

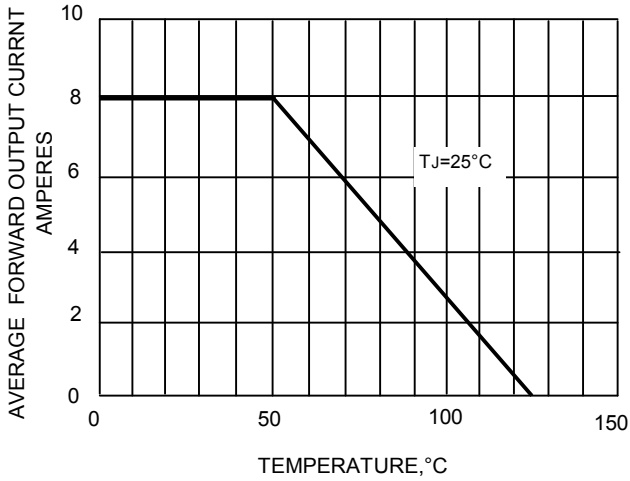


FIG.2-MAXIMUM FORWARD SURGE CURRENT

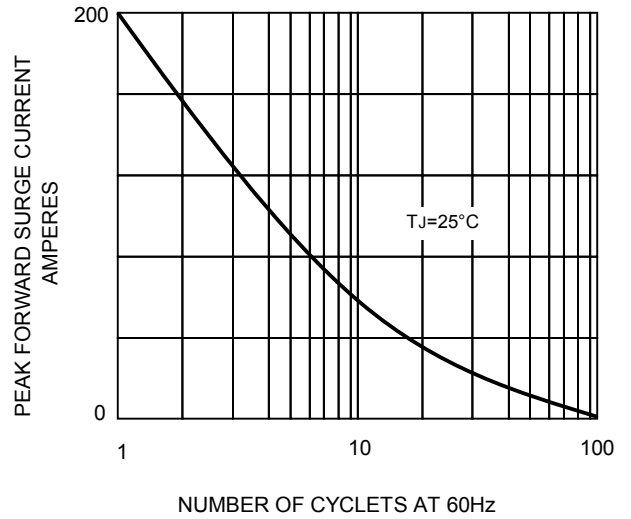


FIG.3-TYPICAL FORWARD CHARACTERISTICS

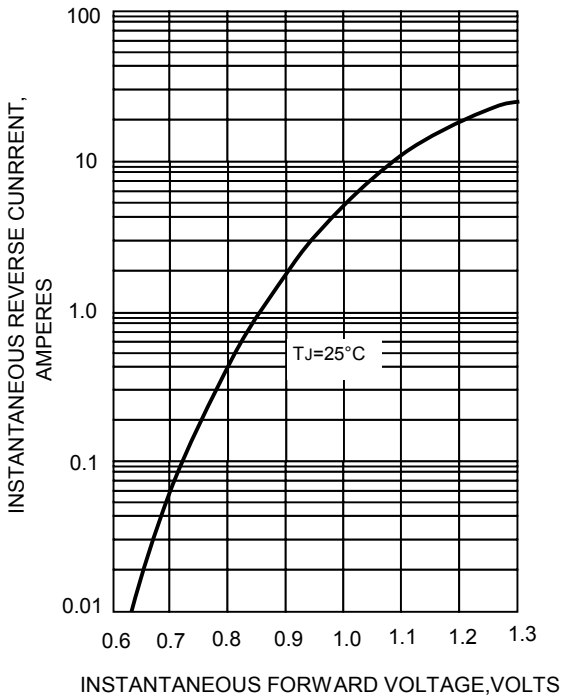


FIG.4-TYPICAL REVERSE CHARACTERISTICS

