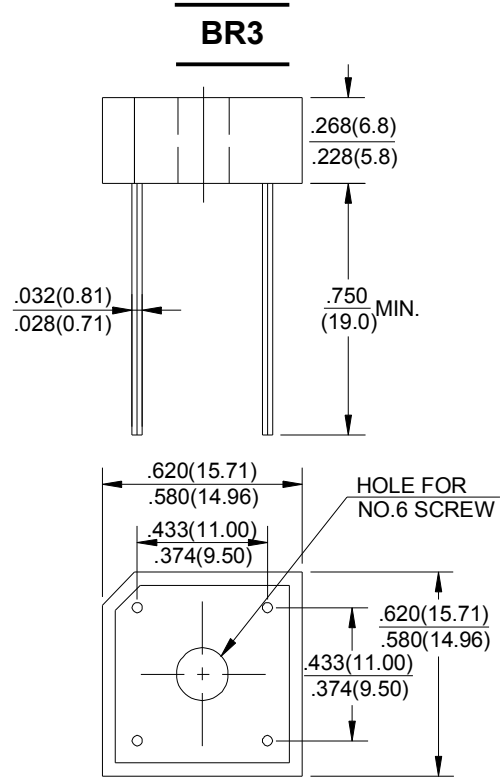


## SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50 to 1000**Volts  
 FORWARD CURRENT - **3.0** Amperes

### FEATURES

- Surge overload rating - 50 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Tinned copper leads
- Mounting position: Any
- Mounting: Thru hole for #6 screw



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	BR3005	BR301	BR302	BR304	BR306	BR308	BR310	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> =50°C (Note1)	I <sub>(AV)</sub>	3.0							A
Forward Rectified Output Current at T <sub>c</sub> =100°C (Note1)	I <sub>(AV)</sub>	2.0							A
Current at T <sub>A</sub> =50°C (Note2)	I <sub>(AV)</sub>	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	50							A
Maximum Forward Voltage Drop Per Bridge Element at 1.5A Peak	V <sub>F</sub>	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element T <sub>A</sub> =25°C	I <sub>R</sub>	10.0							μA
DC Blocking Voltage Per Element T <sub>A</sub> =100°C	I <sub>R</sub>	1.0							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

## BR3 SERIES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

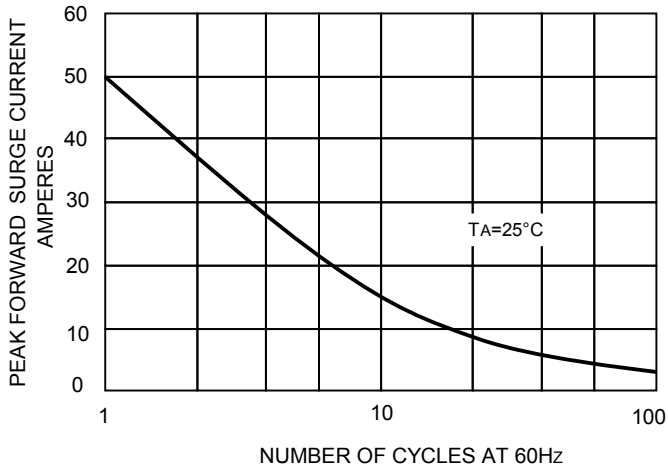


FIG.2-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

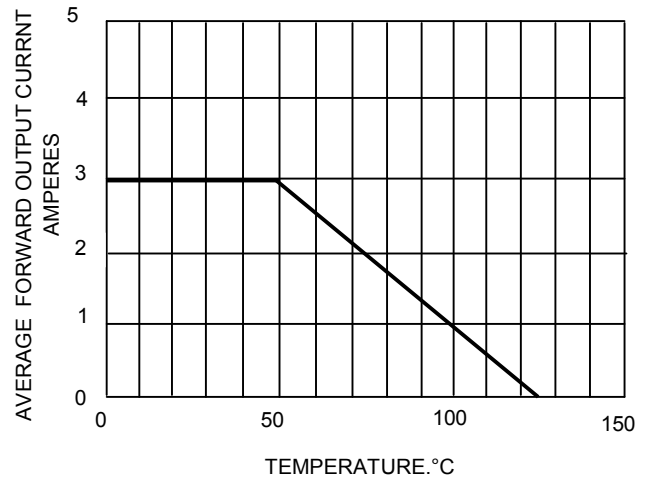


FIG.3-TYPICAL FORWARD CHARACTERISTICS

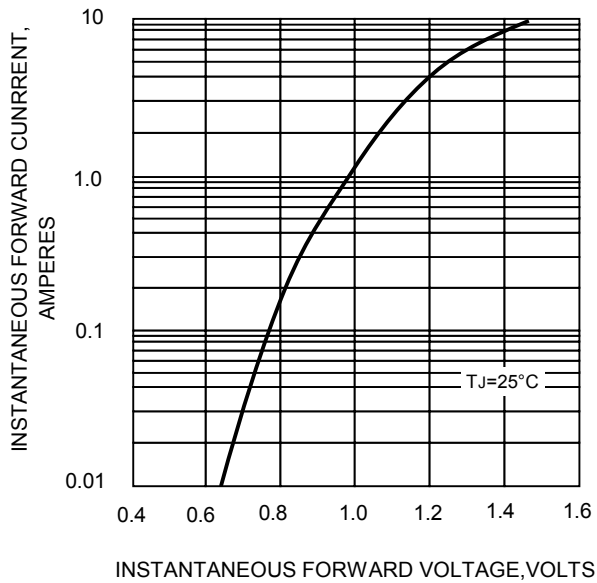


FIG.4-TYPICAL REVERSE CHARACTERISTICS

