# BR10005SG thru BR1010SG

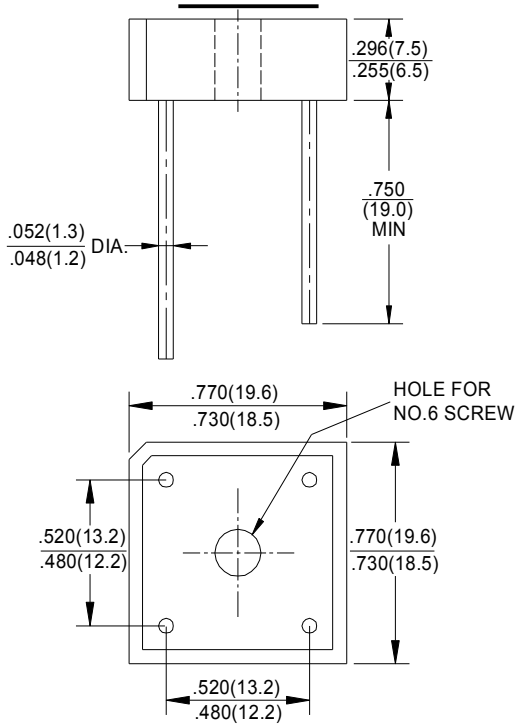
**GLASS PASSIVATED**
**BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **50** to **1000**Volts
FORWARD CURRENT - **10.0** Amperes

## FEATURES

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

**BR8**




Polarity shown on side of case, Positive lead by beveled corner.
Dimensions in inches and (milimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | BR 10005SG | BR 1001SG | BR 1002SG | BR 1004SG | BR 1006SG | BR 1008SG | BR 1010SG | UNIT |
|---|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | $V_{RMS}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum Average Forward Rectified Output Current at $T_A$=50℃ | $I_{(AV)}$ | 10.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load | $I_{FSM}$ | 175 | | | | | | | A |
| Maximum Forward Voltage Drop Per Bridge Element at 5.0A Peak | $V_F$ | 1.1 | | | | | | | V |
| Maximum Reverse Current at Rated $T_J$=25℃ | $I_R$ | 10.0 | | | | | | | μA |
| DC Blocking Voltage Per Element $T_J$=100℃ | | 1.0 | | | | | | | mA |
| Operating Temperature Range | $T_J$ | -55 to +150 | | | | | | | ℃ |
| Storage Temperature Range | $T_{STG}$ | -55 to +150 | | | | | | | ℃ |

Notes:1.Unit mounted on metal chassis
2. Unit mounted on P.C. board

FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

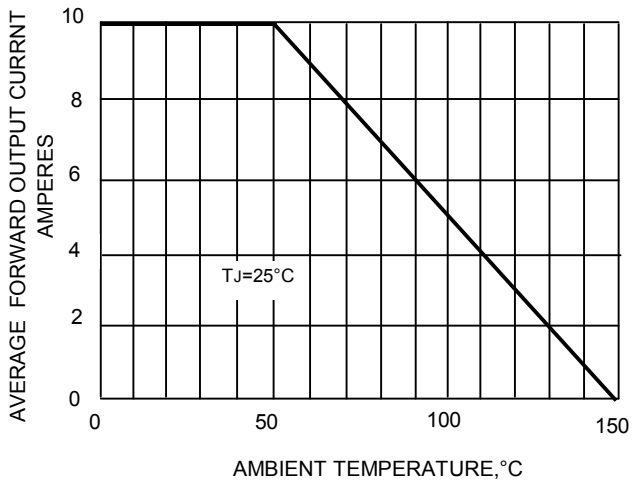



FIG.2-MAXIMUM FORWARD SURGE CURRENT

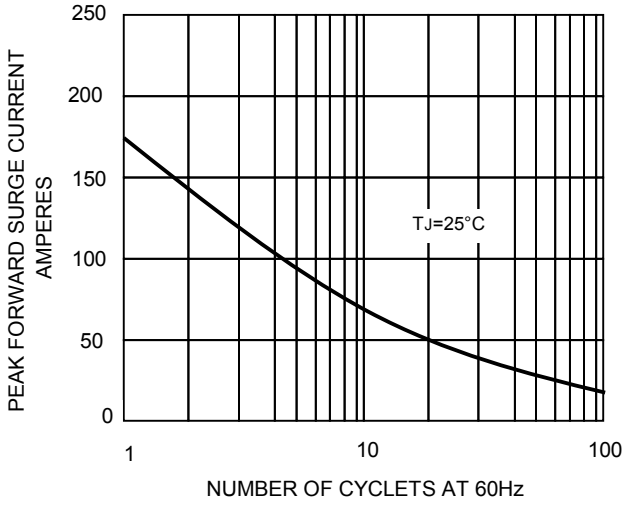



FIG.3-TYPICAL FORWARD
CHARACTERISTICS

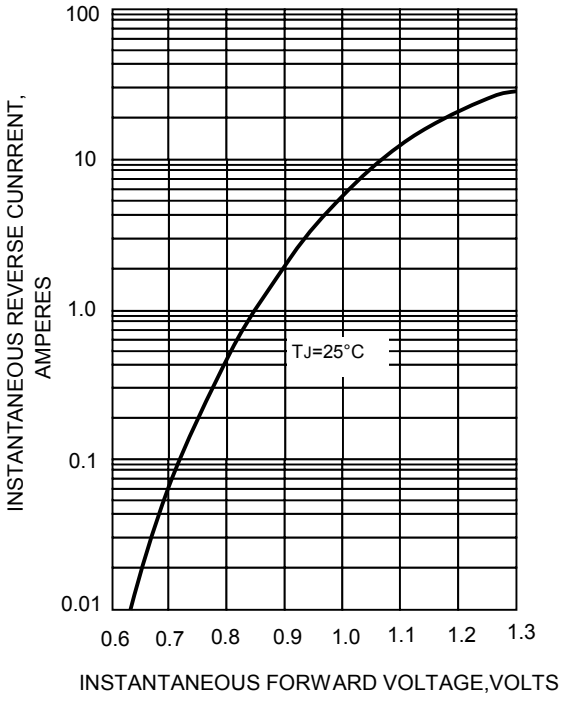



FIG.4-TYPICAL REVERSE
CHARACTERISTICS