



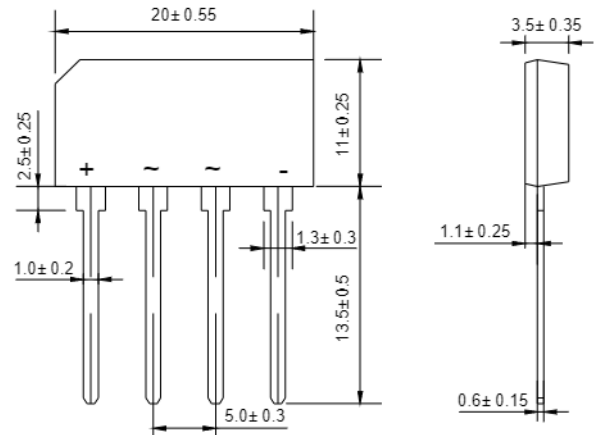
GBL4005 THRU GBL410

BRIDGE RECTIFIERS

FEATURES

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 100 Amperes peak
- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◇ Lead solderable per MIL-STD-202 method 208
- ◇ Glass passivated junctions

GBL



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

Ratings 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 | | GBL 4005 | GBL 401 | GBL 402 | GBL 404 | GBL 406 | GBL 408 | GBL 410 | UNITS |
|--|-------------|------------------|---------|---------|---------|---------|---------|---------|-------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward Output current @ $T_A=25^{\circ}C$ | $I_{F(AV)}$ | 4.0 | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 100 | | | | | | | A |
| Maximum instantaneous forward voltage at 2.0 A | V_F | 1.1 | | | | | | | V |
| Maximum reverse current @ $T_A=25^{\circ}C$ at rated DC blocking voltage @ $T_A=100^{\circ}C$ | I_R | 5.0 500.0 | | | | | | | μA |
| Operating junction temperature range | T_J | - 55 ----- + 150 | | | | | | | $^{\circ}C$ |
| Storage temperature range | T_{STG} | - 55 ----- + 150 | | | | | | | $^{\circ}C$ |



GBL4005 THRU GBL410 BRIDGE RECTIFIERS

Characteristic Curves ($T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

FIG.1 -- PEAK FORWARD SURGE CURRENT

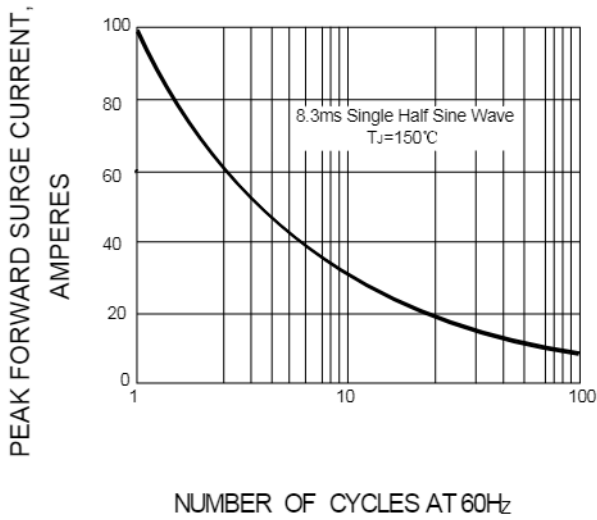


FIG.2 -- FORWARD DERATING CURVE

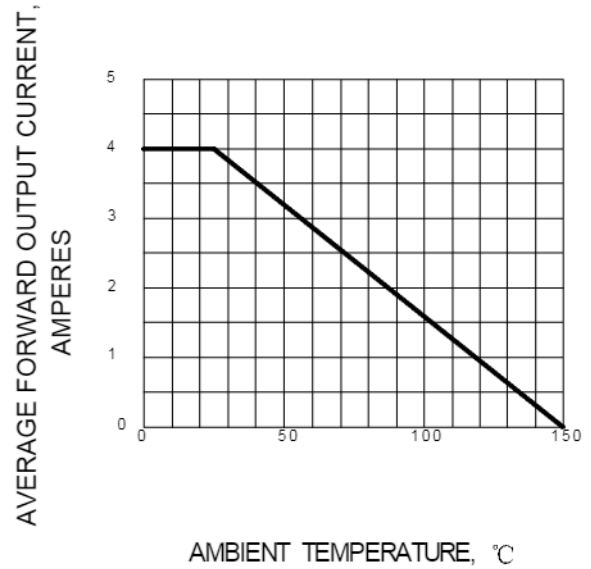


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

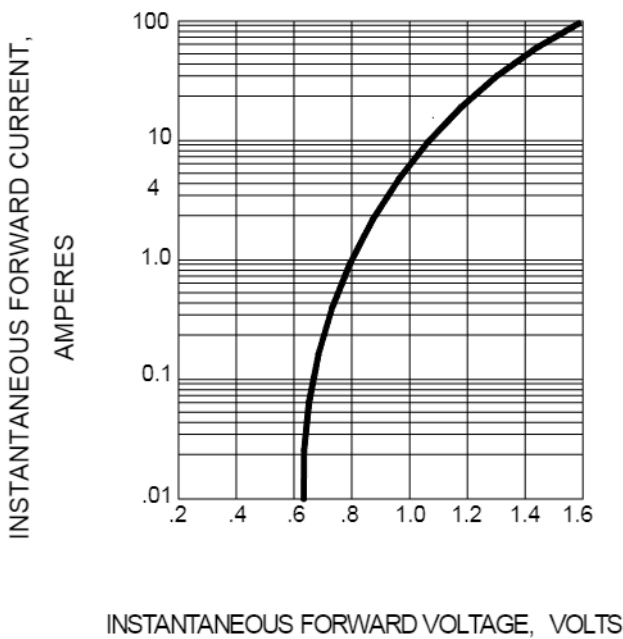
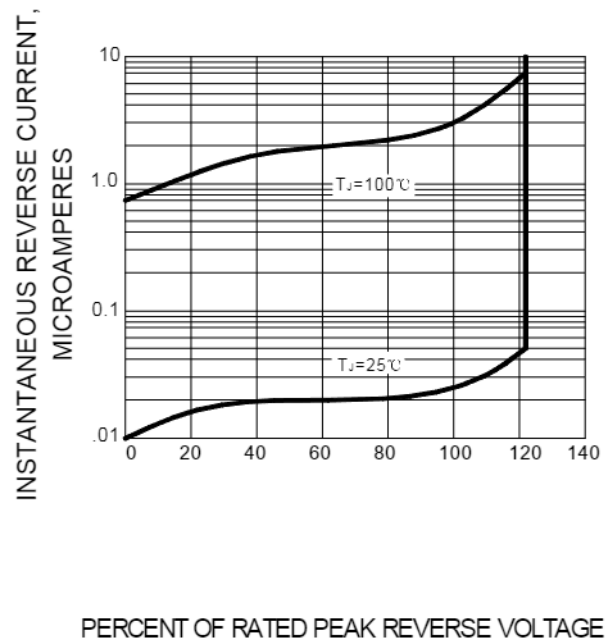


FIG.4 -- TYPICAL REVERSE CHARACTERISTICS



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