

FEATURES

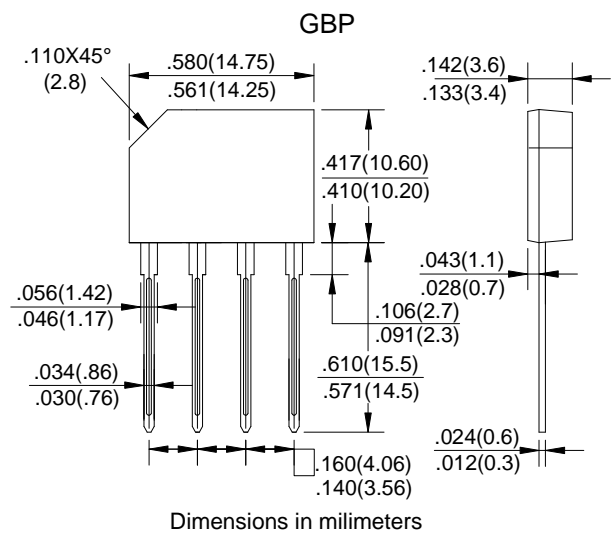
- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Polarity: marked on body
- * Mounting position: Any
- * Weight: 4.8 grams

VOLTAGE RANGE

600 to 1000 Volts

CURRENT

3.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| | Symbols | GBP306 | GBP308 | GBP310 | Units |
|---|-----------------|-------------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V_{RMS} | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length at $T_A=50$ | $I_{(AV)}$ | 3.0 | | | Amp |
| Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 70 | | | Amp |
| Maximum Forward Voltage at 3.0A DC and 25 | V_F | 1.1 | | | Volts |
| Maximum Reverse Current at $T_A=25$ at Rated DC Blocking Voltage $T_A=100$ | I_R | 10.0 500 | | | uAmp |
| Typical Junction Capacitance (Note 1) | C_J | 25 | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 30 | | | /W |
| Typical Thermal Resistance (Note 2) | $R_{\theta JL}$ | 16 | | | /W |
| Operating and Storage Temperature Range | T_J, T_{stg} | -55 to +150 | | | |

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375" (9.5mm) lead length P.C.B. Mounted.

RATING AND CHARACTERISTIC CURVES (GBP306 THRU GBP310)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

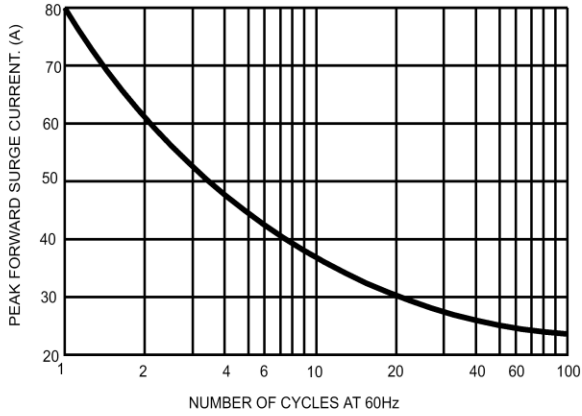


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

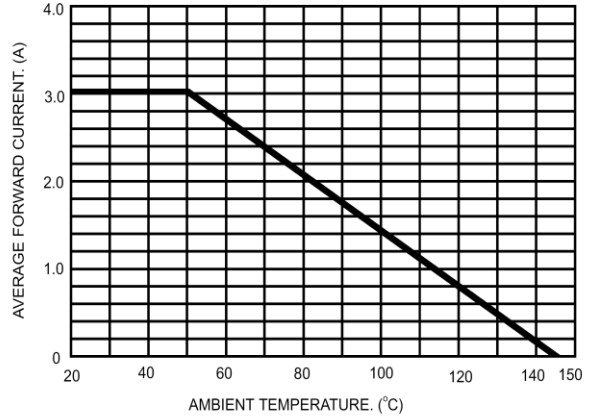


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

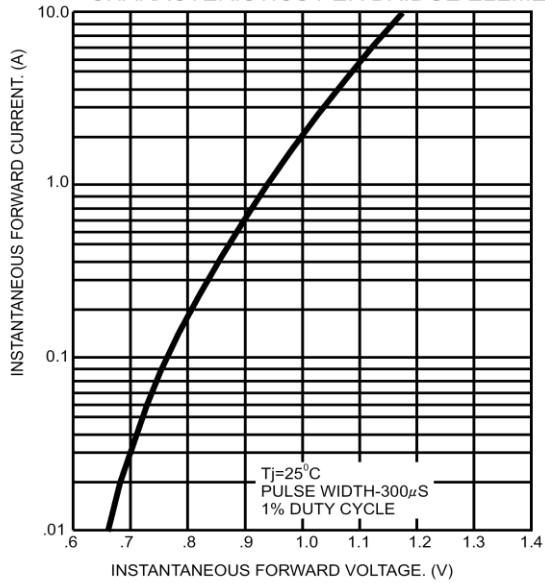
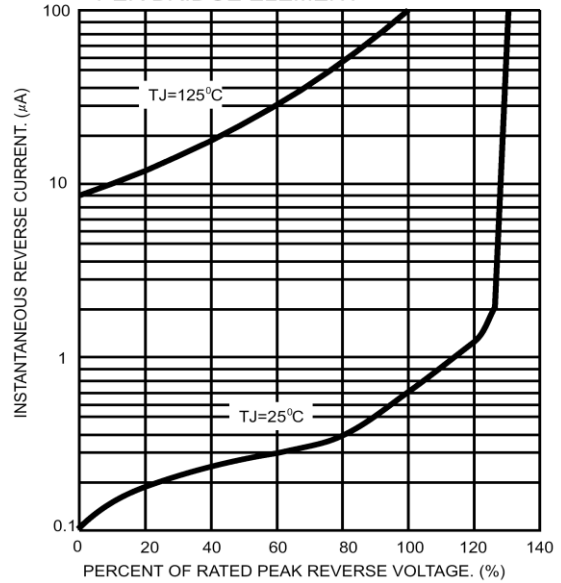


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [GOODWORK](#) manufacturer:

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [MP358-BP](#) [90MT160KPBF](#) [GBJ1504-BP](#) [GBU10B-BP](#) [GBU15J-BP](#) [GBU15K-BP](#) [GBU4A-BP](#)
[GBU4D-BP](#) [GSIB680-E3/45](#) [DB101-BP](#) [DF01](#) [DF10SA-E345](#) [BU1508-E3/45](#) [BU1510-E3/45](#) [KBPC50-10S](#) [RS405GL-BP](#) [26MT120](#)
[G5SBA60-E3/51](#) [GBJ1502-BP](#) [GBU10J-BP](#) [GBU4J-BP](#) [GBU6M](#) [GBU8D-BP](#) [GBU8J-BP](#) [GSIB1520-E3/45](#) [TB102M](#) [MB1510](#) [MB6M-G](#)
[MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [MP501W-BP](#) [MP502-BP](#) [BR1005-BP](#) [BR101-BP](#) [BR84DTP204](#) [BU1010A-E3/51](#) [BU1508-](#)
[E3/51](#) [BU2006-E3/45](#) [BU2008-E3/51](#) [US15KB80R-7000](#) [KBPC25-02](#) [VS-60MT120KPBF](#) [DB105-BP](#)