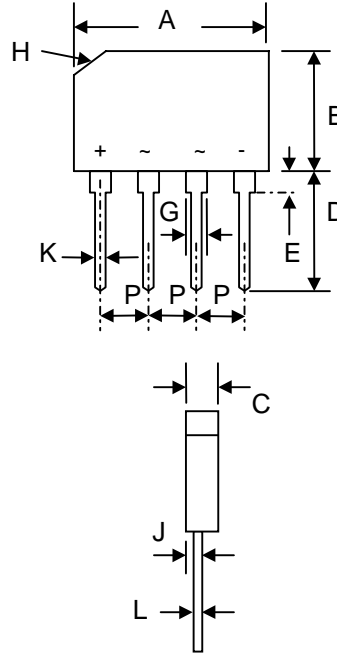


Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 2.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



| GBP | | |
|----------------------|-----------|-------|
| Dim | Min | Max |
| A | 14.25 | 14.75 |
| B | 10.2 | 10.6 |
| C | 3.8 | 4.7 |
| D | 14.25 | 14.73 |
| E | 2.29 | — |
| G | 1.17 | 1.42 |
| H | 2.8 x 45° | |
| J | 1.14 | 1.52 |
| K | 0.76 | 0.86 |
| L | 0.3 | 0.64 |
| P | 3.56 | 4.06 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| Characteristic | Symbol | GBP 2005 | GBP 201 | GBP 202 | GBP 204 | GBP 206 | GBP 208 | GBP 210 | Unit |
|--|---------------------------------|-------------|---------|---------|---------|---------|---------|---------|---------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWV} V_R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @ $T_A = 50^\circ\text{C}$ | I_O | 2.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 50 | | | | | | | A |
| Forward Voltage (per bridge) @ $I_F = 2.0\text{A}$ | V_{FM} | 1.1 | | | | | | | V |
| Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$ | I_R | 10 1.0 | | | | | | | μA mA |
| Operating Temperature Range | T_j | -55 to +125 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

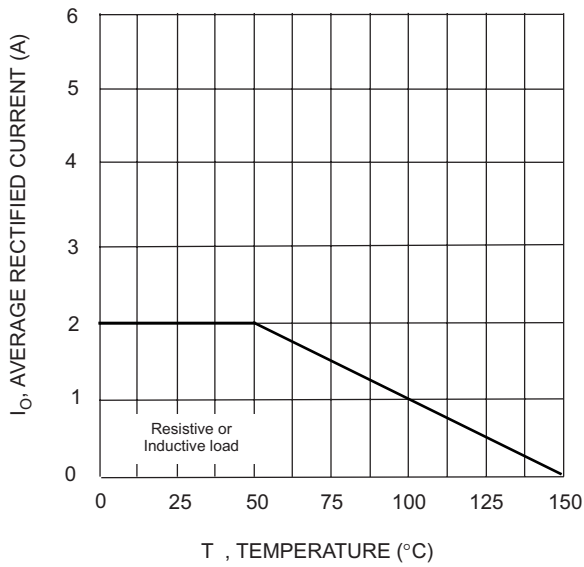


Fig. 1 Forward Current Derating Curve

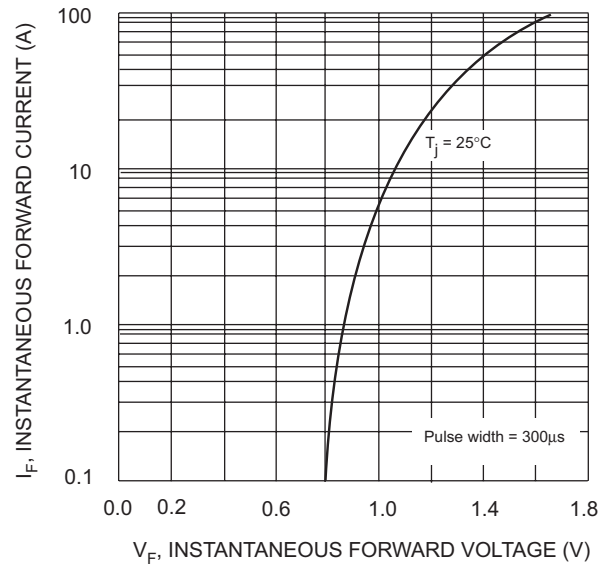


Fig. 2 Typical Fwd Characteristics, per element

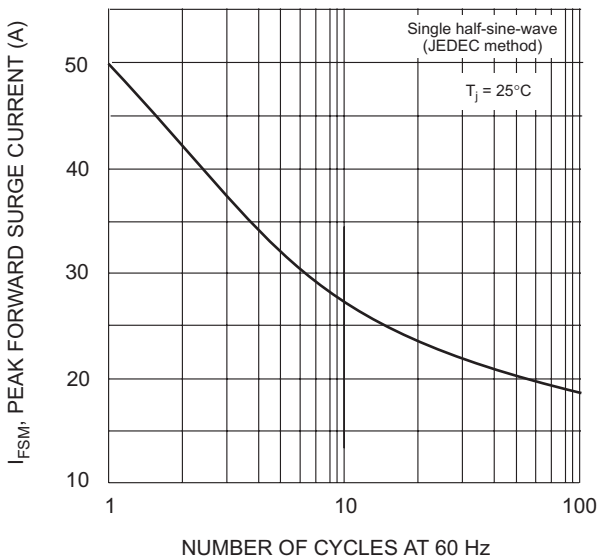


Fig. 3 Maximum Non-Repetitive Surge Current

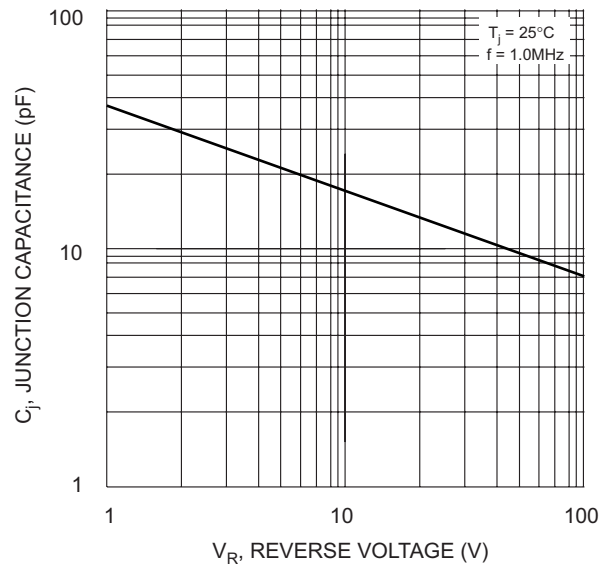


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| GBP2005 | SIL Bridge | 1000 Units/Box |
| GBP201 | SIL Bridge | 1000 Units/Box |
| GBP202 | SIL Bridge | 1000 Units/Box |
| GBP204 | SIL Bridge | 1000 Units/Box |
| GBP206 | SIL Bridge | 1000 Units/Box |
| GBP208 | SIL Bridge | 1000 Units/Box |
| GBP210 | SIL Bridge | 1000 Units/Box |

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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