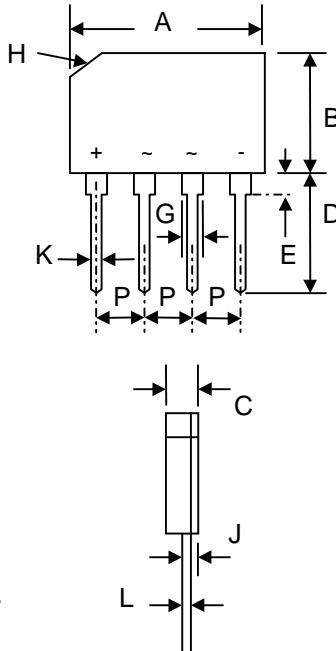


Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
-  Recognized File # E157705

Mechanical Data

- Case: GBP, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**



| GBP | | |
|-----|------------|-------|
| Dim | Min | Max |
| A | 14.25 | 14.75 |
| B | 10.10 | 10.50 |
| C | 3.35 | 3.65 |
| D | 14.15 | 14.65 |
| E | 2.10 | 2.50 |
| G | 1.15 | 1.45 |
| H | 2.80 x 45° | |
| J | 1.30 | 1.60 |
| K | 0.66 | 0.86 |
| L | 0.35 | 0.65 |
| P | 3.56 | 4.06 |

All Dimensions in mm

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

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| Characteristic | Symbol | GBP 200 | 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 _{RWM} 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 $\text{@ } T_A = 50^\circ\text{C}$ | 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} | | | | 60 | | | | A |
| Forward Voltage per leg $\text{@ } I_F = 1.0\text{A}$ | V _{FM} | | | | 1.0 | | | | V |
| Peak Reverse Current $\text{@ } T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage $\text{@ } T_A = 125^\circ\text{C}$ | I _R | | | | 5.0 | | | | μA |
| | | | | | 500 | | | | |
| Typical Thermal Resistance per leg (Note 1) | R _{θJA} | | | | 32 | | | | $^\circ\text{C/W}$ |
| Typical Thermal Resistance per leg (Note 2) | R _{θJL} | | | | 13 | | | | $^\circ\text{C/W}$ |
| Operating and Storage Temperature Range | T _j , T _{TSG} | | | | -55 to +150 | | | | °C |

Note: 1. Mounted on 75 x 75 x 3.0mm Al. plate.

2. Mounted on PCB at 9.5mm lead length with 12mm² copper pad.

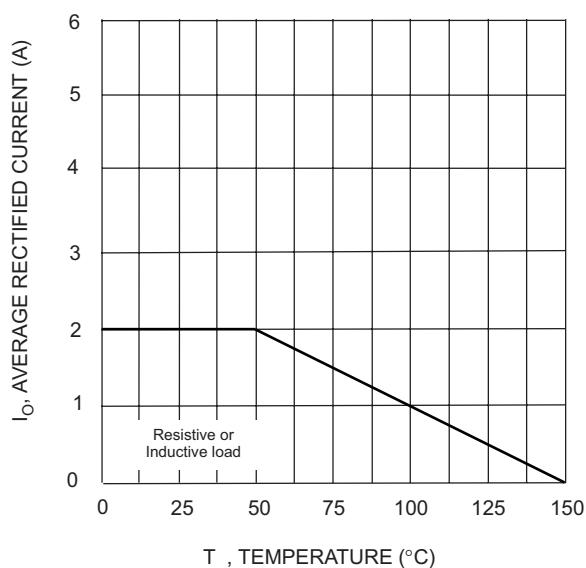


Fig. 1 Forward Current Derating Curve

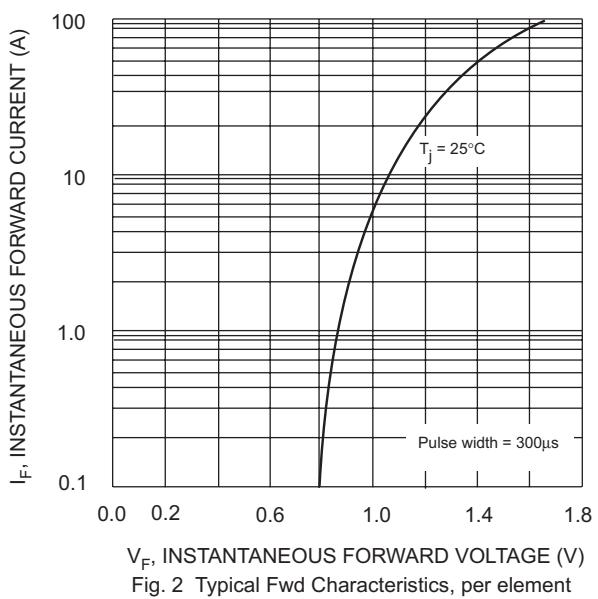


Fig. 2 Typical Fwd Characteristics, per element

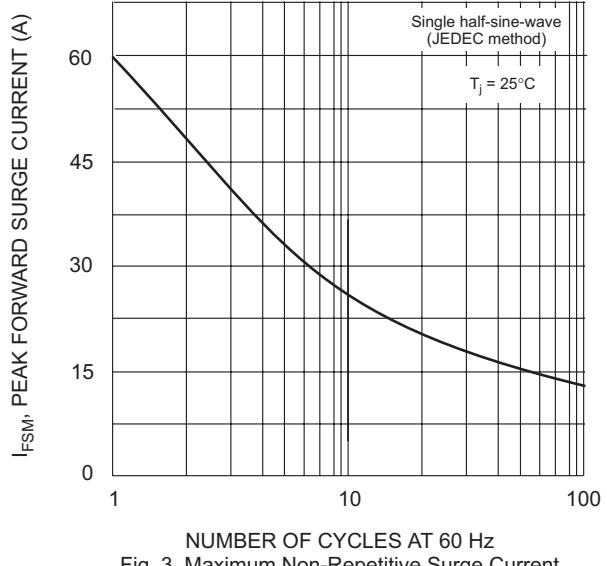


Fig. 3 Maximum Non-Repetitive Surge Current

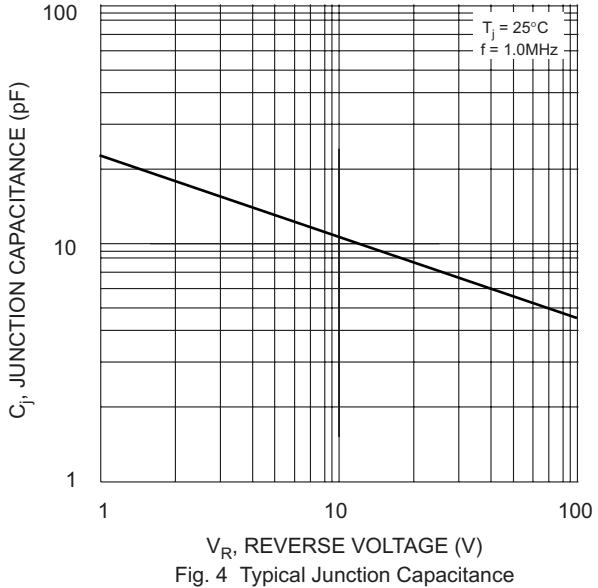
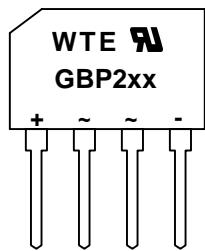


Fig. 4 Typical Junction Capacitance

MARKING INFORMATION



WTE = Manufacturer's Logo
GBP2xx = Device Number
xx = 00, 01, 02, 04, 06, 08 or 10
Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

| Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|----------------------------------|-------------------|-------------------------------|-------------------|------------------------------|
| 200 x 160 x 42 | 600 | 425 x 215 x 280 | 7,200 | 17.0 |

Note: 1. Paper box, white or brown color.

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| GBP200 | SIL Bridge | 600 Units/Box |
| GBP201 | SIL Bridge | 600 Units/Box |
| GBP202 | SIL Bridge | 600 Units/Box |
| GBP204 | SIL Bridge | 600 Units/Box |
| GBP206 | SIL Bridge | 600 Units/Box |
| GBP208 | SIL Bridge | 600 Units/Box |
| GBP210 | SIL Bridge | 600 Units/Box |

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add “-LF” suffix to part number above. For example, GBP200-LF.**

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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