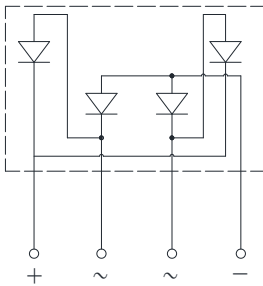
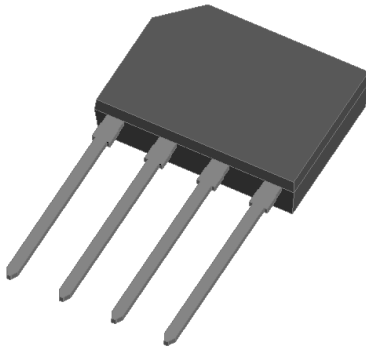


Bridge Rectifiers



Features

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

- **Package:** GBP
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | GBP2005A | GBP201A | GBP202A | GBP204A | GBP206A | GBP208A | GBP210A |
|---|--|----------------------|-----------|---------|---------|---------|---------|---------|---------|
| Device marking code | | | GBP2005A | GBP201A | GBP202A | GBP204A | GBP206A | GBP208A | GBP210A |
| Repetitive peak reverse voltage | VRRM | V | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Average rectified output current @60Hz sine wave, R-load | With heatsink $T_c=140^\circ\text{C}$ | IO | A | 2.0 | | | | | |
| | Without heatsink $T_c=70^\circ\text{C}$ | | | | | | | | |
| Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, $T_j=25^\circ\text{C}$ | IFSM | A | 90 | | | | | | |
| Current squared time @1ms $\leq t \leq 8.3$ ms $T_j=25^\circ\text{C}$, Rating of per diode | I^2t | A^2s | 33 | | | | | | |
| Storage temperature | T_{stg} | $^\circ\text{C}$ | -55 ~+150 | | | | | | |
| Junction temperature | T_j | $^\circ\text{C}$ | -55 ~+150 | | | | | | |

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | GBP2005A | GBP201A | GBP202A | GBP204A | GBP206A | GBP208A | GBP210A |
|---|------------------|---------------|-----------------------------------|----------|---------|---------|---------|---------|---------|---------|
| Maximum instantaneous forward voltage drop per diode | V _F | V | IFM=1.0A | 1.00 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage per diode | I _{RRM} | μA | V _{RM} =V _{RRM} | 5 | | | | | | |

■ Thermal Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | GBP2005A | GBP201A | GBP202A | GBP204A | GBP206A | GBP208A | GBP210A |
|--------------------|------------------------------|-------------------|--------------------|---------|---------|---------|---------|---------|---------|
| Thermal Resistance | Between junction and ambient | R _{θJ-A} | $^\circ\text{C/W}$ | 47.0 | | | | | |
| | Between junction and lead | R _{θJ-L} | | 10.0 | | | | | |



GBP2005A THRU GBP210A

Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|-----------------------|--------------|----------------|----------------------|-------------------------|----------------------------|---------------|
| GBP2005A THRU GBP210A | B1 | 1.4 | 35 | 2100 | 4200 | TUBE |

Characteristics (Typical)

FIG1:Io-Tc Curve

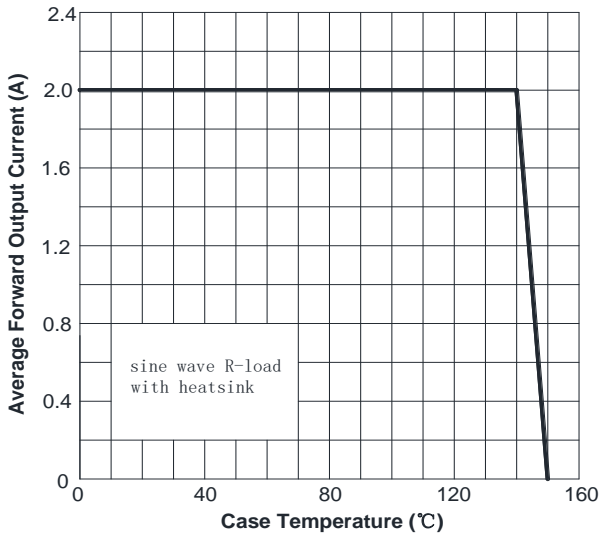


FIG2: Surge Forward Current Capability

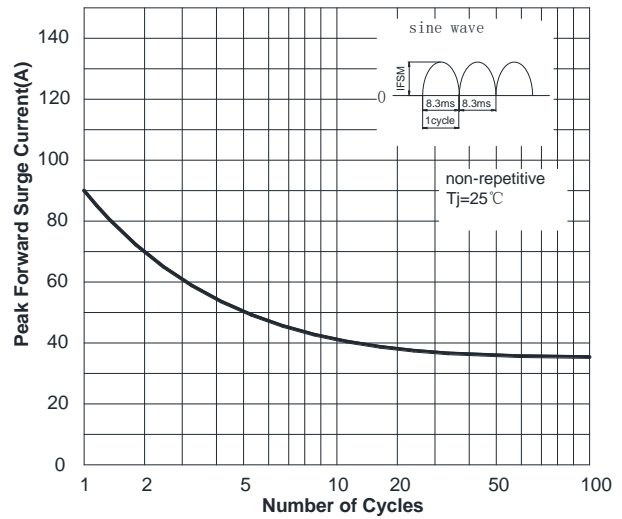


FIG3: Forward Voltage

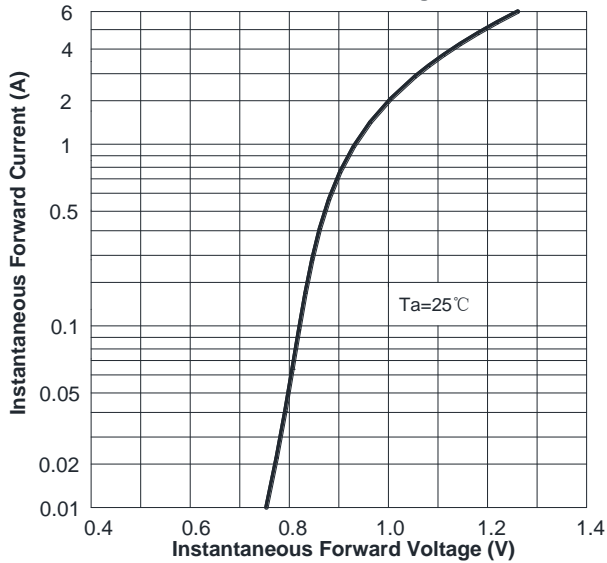
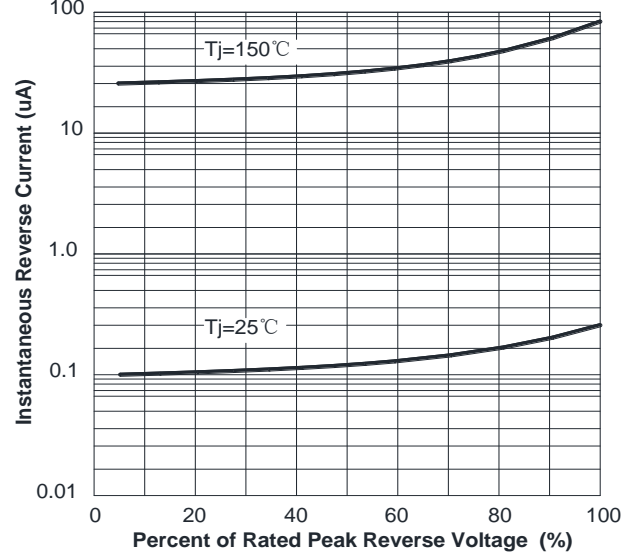


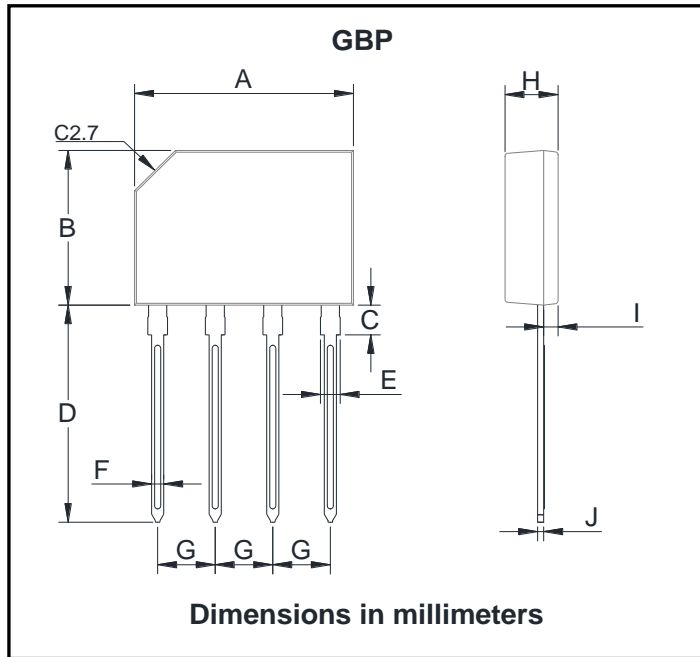
FIG4: Typical Reverse Characteristics





GBP2005A THRU GBP210A

■ Outline Dimensions



| GBP | | |
|-----|-------|-------|
| Dim | Min | Max |
| A | 14.25 | 14.75 |
| B | 10.10 | 10.60 |
| C | 1.80 | 2.20 |
| D | 14.25 | 14.73 |
| E | 1.22 | 1.42 |
| F | 0.76 | 0.86 |
| G | 3.70 | 3.90 |
| H | 3.35 | 3.65 |
| I | 0.80 | 1.10 |
| J | 0.35 | 0.55 |



GBP2005A THRU GBP210A

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