

GBP2005 THRU GBP210

Bridge Rectifiers

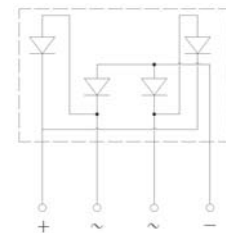
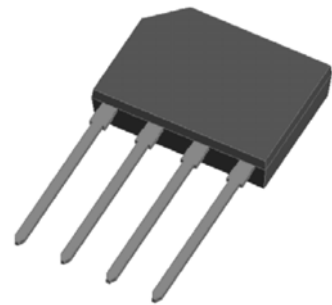
Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

Features

- Ideal for printed circuit boards
- High surge current capability

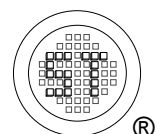
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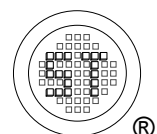
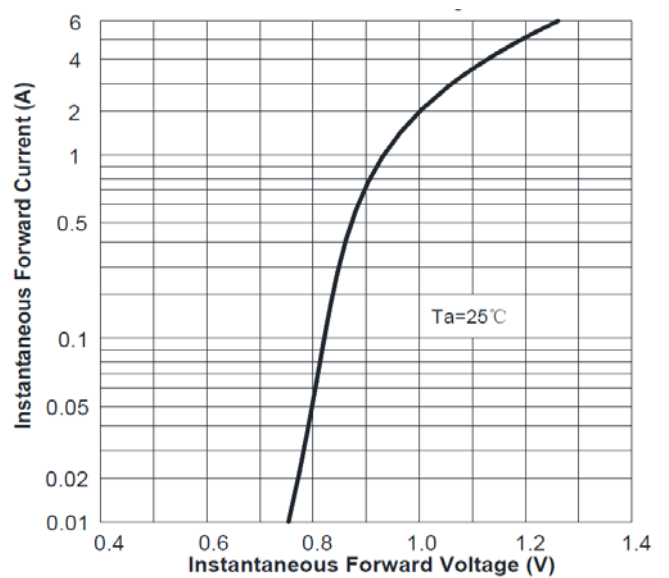
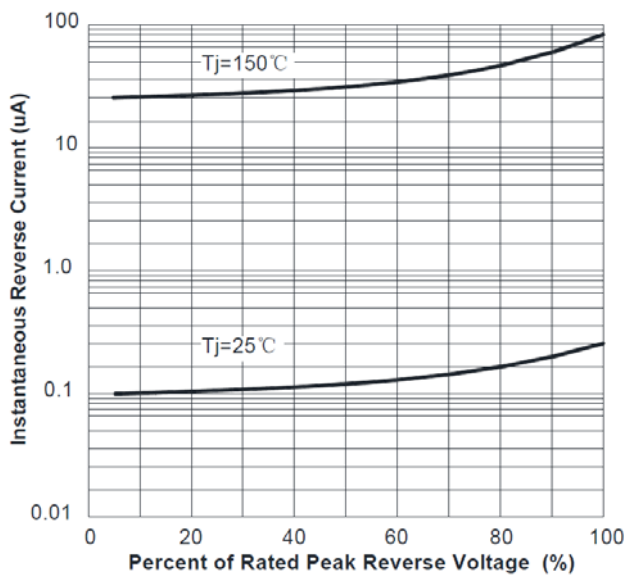
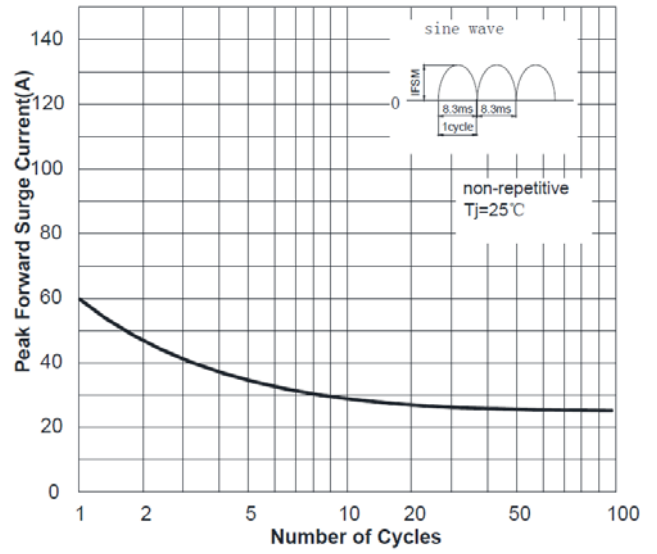
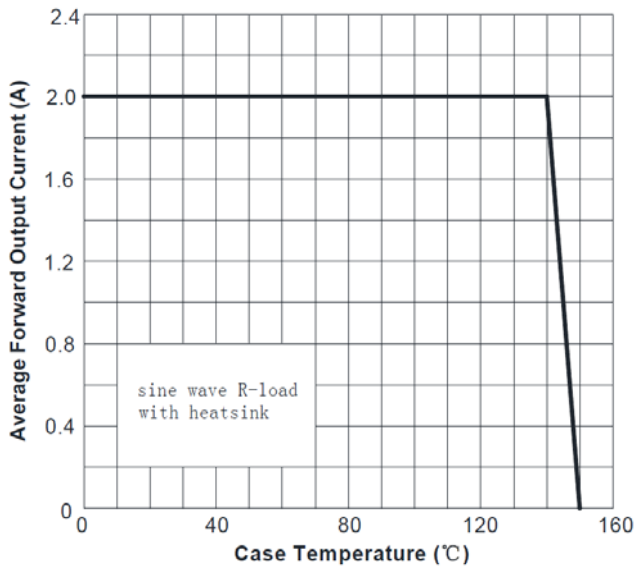
Maximum Ratings and Electrical Characteristics

Ratings at $T_a = 25\text{ }^\circ\text{C}$ ambient temperature unless otherwise specified.

| Parameter | Symbols | GBP2005 | GBP201 | GBP202 | GBP204 | GBP206 | GBP208 | GBP210 | Units |
|---|-----------------|---------------|--------|--------|--------|--------|--------|--------|--------------------|
| | Marking | GBP2005 | GBP201 | GBP202 | GBP204 | GBP206 | GBP208 | GBP210 | - |
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current With heatsink $T_C = 140\text{ }^\circ\text{C}$ Without heatsink $T_C = 70\text{ }^\circ\text{C}$ | $I_{F(AV)}$ | 2 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) | I_{FSM} | 60 | | | | | | | A |
| Maximum Forward Voltage at 1 A | V_F | 1.05 | | | | | | | V |
| Maximum DC Reverse Current ($V_{RM}=V_{RRM}$) | I_R | 10 | | | | | | | μA |
| Thermal Resistance Junction to Lead | $R_{\theta JL}$ | 10 | | | | | | | $^\circ\text{C/W}$ |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 47 | | | | | | | $^\circ\text{C/W}$ |
| Operating and Storage Temperature Range | T_j, T_{stg} | - 55 to + 150 | | | | | | | $^\circ\text{C}$ |



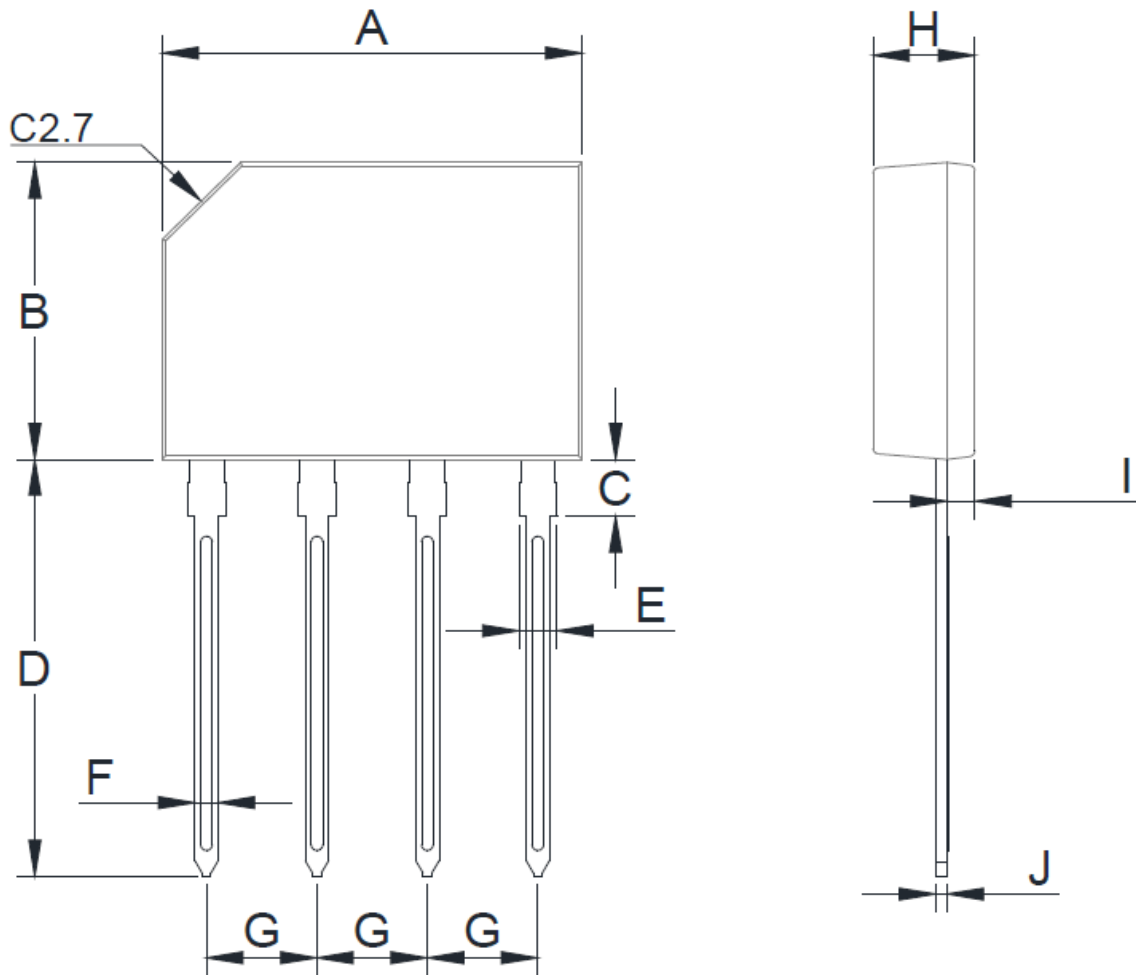
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Package Outline (Dimensions in mm)

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

