



THE DATASHEET OF KBP208G-BP



| | |
|---|----------------|
|  | E502650 |
|---|----------------|

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 8 °C/W Junction To Case

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| KBP2005G | KBP2005G | 50V | 35V | 50V |
| KBP201G | KBP201G | 100V | 70V | 100V |
| KBP202G | KBP202G | 200V | 140V | 200V |
| KBP204G | KBP204G | 400V | 280V | 400V |
| KBP206G | KBP206G | 600V | 420V | 600V |
| KBP208G | KBP208G | 800V | 560V | 800V |
| KBP210G | KBP210G | 1000V | 700V | 1000V |

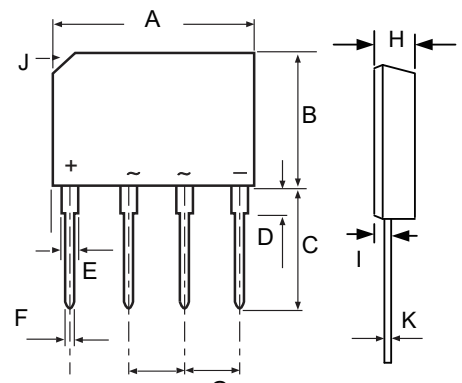
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 2.0A | $T_A = 65^\circ\text{C}$ |
| Non-Repetitive Peak Forward Surge Current | I_{FSM} | 60A 120A | 8.3ms, Half Sine Wave 1ms, Square Wave |
| Maximum Forward Voltage Drop Per Element | V_F | 1.05V | $I_{FM} = 2.0\text{A Per Element};$ $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10µA 1mA | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ |
| Dielectric Strength | V_{ISO} | 2KV | |
| Rating for Fusing | I^2t | 15 A ² s | $t < 8.3\text{ms}$ |
| Typical Junction Capacitance | C_J | 25 pF | Measured at 1.0MHz, $V_R = 4.0\text{V}$ |

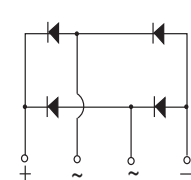
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a
 2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2.0 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

GBP



| DIMENSIONS | | | | | |
|------------|-------------|-------|------------|-------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | 0.561 | 0.580 | 14.25 | 14.75 | |
| B | 0.406 | 0.417 | 10.10 | 10.60 | |
| C | 0.561 | 0.581 | 14.25 | 14.73 | |
| D | 0.071 | 0.087 | 1.80 | 2.20 | |
| E | 0.046 | 0.056 | 1.17 | 1.42 | |
| F | 0.030 | 0.034 | 0.76 | 0.86 | |
| G | 0.140 | 0.160 | 3.56 | 4.06 | |
| H | 0.131 | 0.161 | 3.35 | 4.10 | |
| I | 0.031 | 0.043 | 0.80 | 1.10 | |
| J | 0.106 X 45° | | 2.70 X 45° | | |
| K | 0.012 | 0.025 | 0.30 | 0.64 | |



Case Type

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

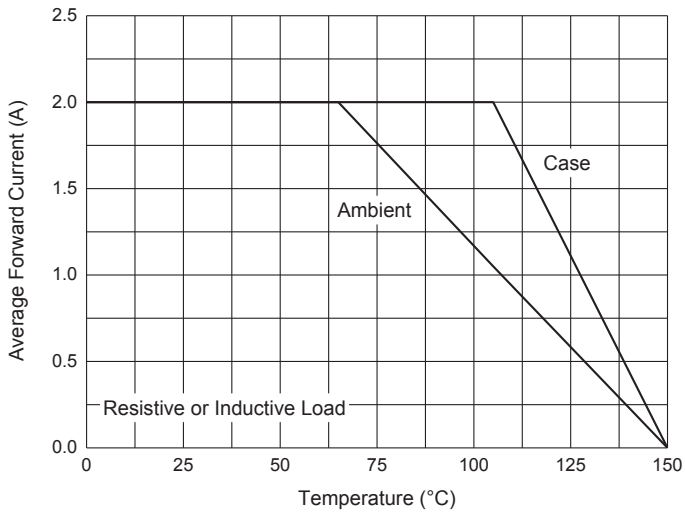


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

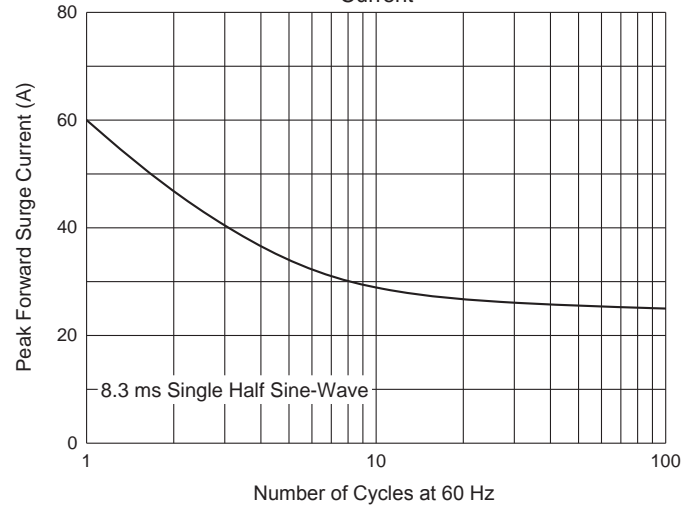


Fig. 3 - Typical Instantaneous Forward Characteristics

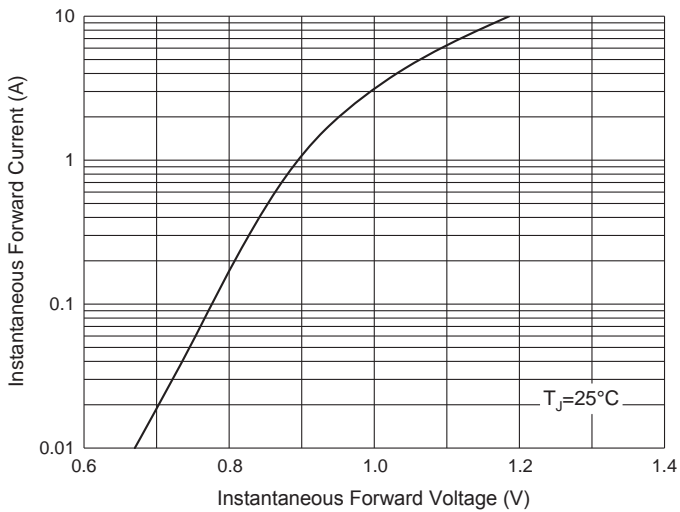


Fig. 4 - Typical Reverse Leakage Characteristics

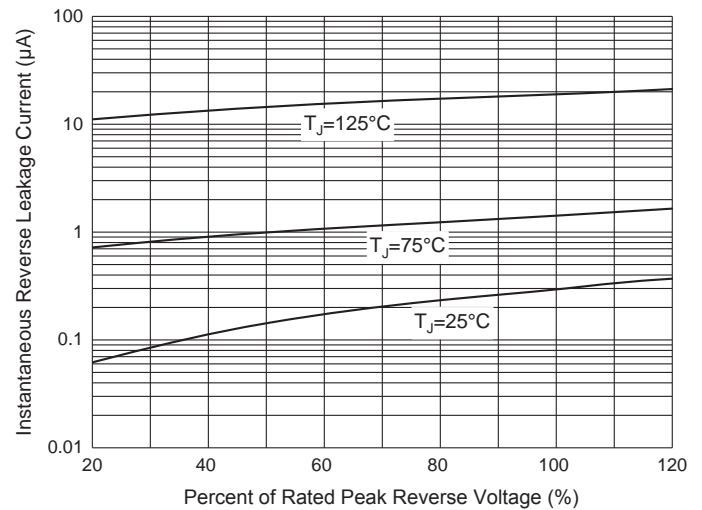
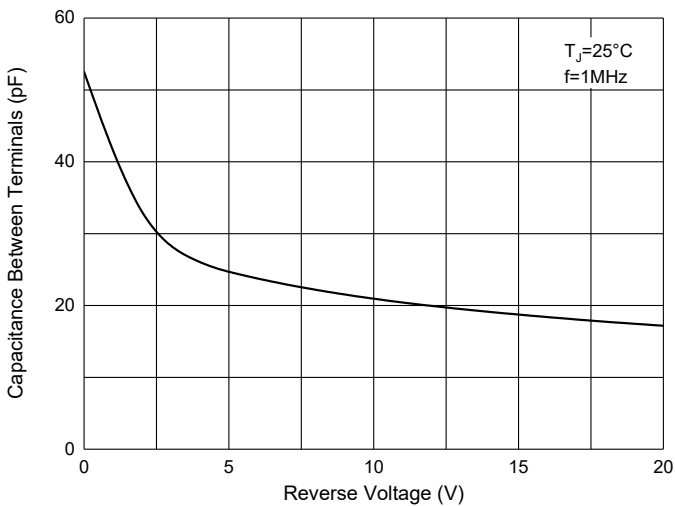


Fig. 5 - Capacitance Characteristics



Ordering Information

| Device | Packing |
|----------------|--|
| Part Number-BP | Bulk:35pcs/Tube,2100pcs/Box,4200pcs/Carton |

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