



Micro Commercial Components



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# KBP2005G THRU KBP210G

## Features

- Ideal for printed circuit board
- Electrically isolated base 1800Volts
- Lead: Silver Plated Cooper Lead
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

## Maximum Ratings

- Thermal Resistance Junction to Case: 14°C/W
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

| MCC Catalog 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            | KBP210 G       | 1000V                                  | 700V                | 1000V                       |

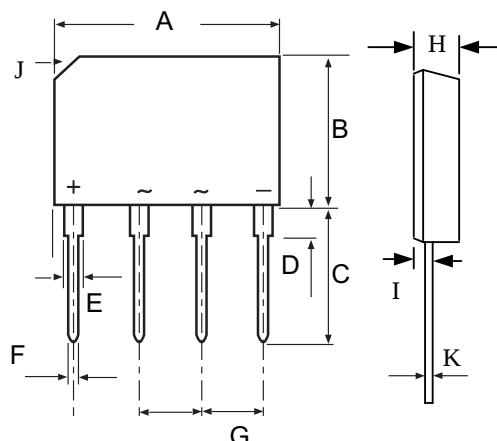
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |             |                                                                   |
|---------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 2.0A        | $T_A = 65^\circ\text{C}$                                          |
| Peak Forward Surge Current                              | $I_{FSM}$   | 50A         | 8.3ms, half sine                                                  |
| Maximum Forward Voltage Drop Per Element                | $V_F$       | 1.1V        | $I_{FM} = 2.0\text{A per element};$<br>$T_A = 25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 10μA<br>1mA | $T_J = 25^\circ\text{C}$<br>$T_J = 100^\circ\text{C}$             |

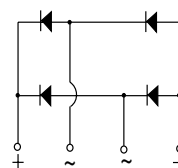
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

## 2 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

### GBP



| DIM | INCHES    |      | MM       |       | NOTE |
|-----|-----------|------|----------|-------|------|
|     | MIN       | MAX  | MIN      | MAX   |      |
| A   | .561      | .580 | 14.25    | 14.75 |      |
| B   | .410      | .417 | 10.20    | 10.60 |      |
| C   | .561      | .581 | 14.25    | 14.73 |      |
| D   |           | .090 |          | 2.29  |      |
| E   | .046      | .056 | 1.17     | 1.42  |      |
| F   | .030      | .034 | 0.76     | 0.86  |      |
| G   | .140      | .160 | 3.56     | 4.06  |      |
| H   | .138      | .161 | 3.50     | 4.10  |      |
| I   | .045      | .060 | 1.14     | 1.52  |      |
| J   | .110 x45° |      | 2.80x45° |       |      |
| K   | .012      | .025 | .300     | .641  |      |



Case Type

## KBP2005G THRU KBP210G

### RATING AND CHARACTERISTICS CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

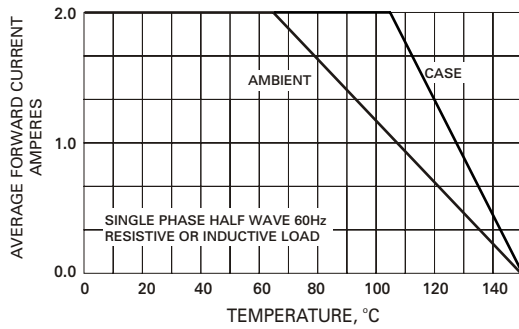


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

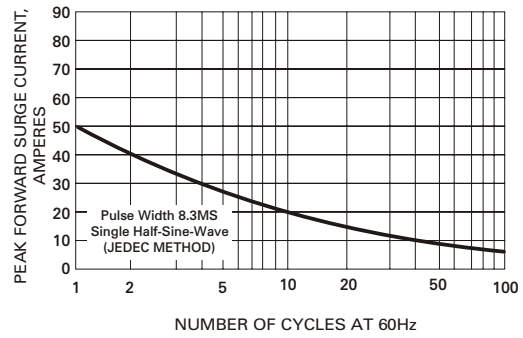


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

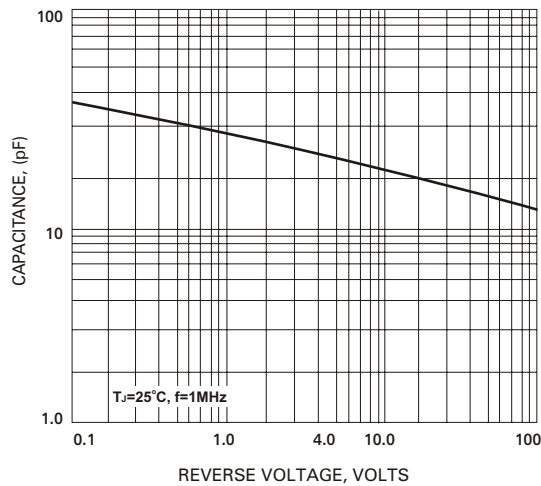


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

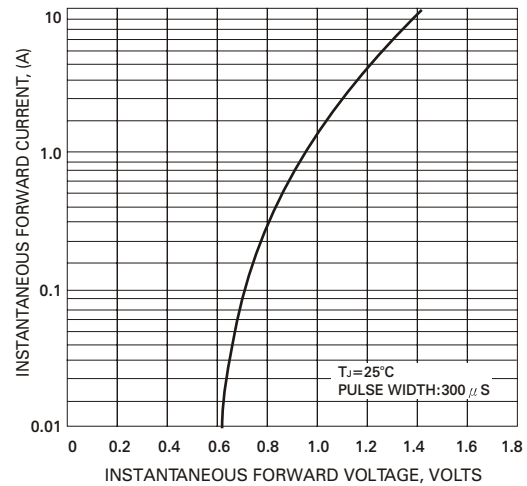
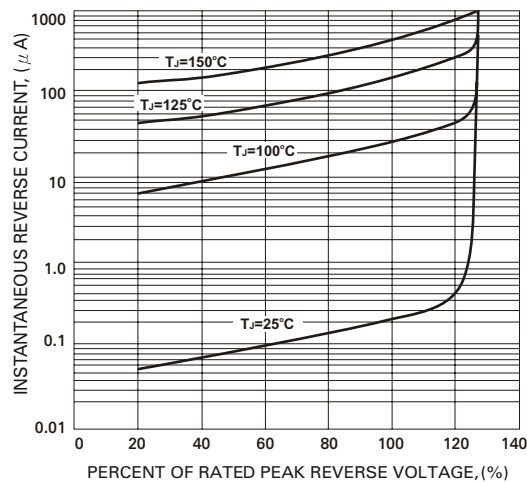


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS



## Ordering Information

| Device           | Packing            |
|------------------|--------------------|
| (Part Number)-BP | Bulk: 1250pcs/Box; |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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