



Micro Commercial Components



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KBP2005 THRU KBP210

2.0 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

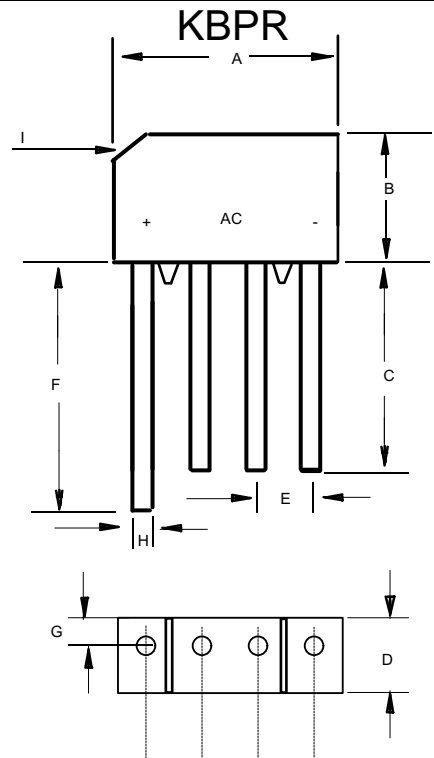
Features

- UL Recognized File # E165989
- # Glass Passivated Die Construction
- # Ideal for Printed Circuit Boards
- # Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating1
- Lead Free Finish/RoHS Compliant (Note1)("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- # Thermal Resistance: Junction to case: 10°C/W typical
- # Operating Temperature: -55°C to +150°C
- # Storage Temperature: -55°C to +150°C

| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|--|---------------------|-----------------------------|
| KBP2005 | 50V | 35V | 50V |
| KBP201 | 100V | 70V | 100V |
| KBP202 | 200V | 140V | 200V |
| KBP204 | 400V | 280V | 400V |
| KBP206 | 600V | 420V | 600V |
| KBP208 | 800V | 560V | 800V |
| KBP210 | 1000V | 700V | 1000V |



Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 2.0A | $T_c = 105^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 60A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.1V | $I_F = 2.0\text{A}$ per element |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μ A 0.5mA | $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$ |
| Typical Junction Capacitance Per Element | C_J | 25pF | 4V Reverse DC 1MHZ |

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

| DIM | DIMENSION | | | | NOTE |
|-----|-----------|------|--------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .560 | .600 | 14.32 | 15.24 | |
| B | .420 | .460 | 10.70 | 11.70 | |
| C | .500 | --- | 12.70 | 15.50 | |
| D | .132 | .144 | 3.35 | 3.65 | |
| E | .140 | .160 | 3.60 | 4.10 | |
| F | .600 | --- | 15.24 | 19.00 | |
| G | .035 | .047 | 0.90 | 1.20 | |
| H | .028 | .034 | 0.70 | 0.90 | |
| I | 0.12X45 | | 3.0X45 | | |

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

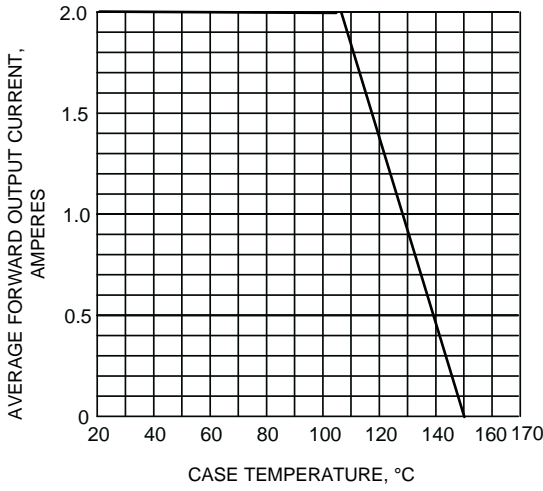


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

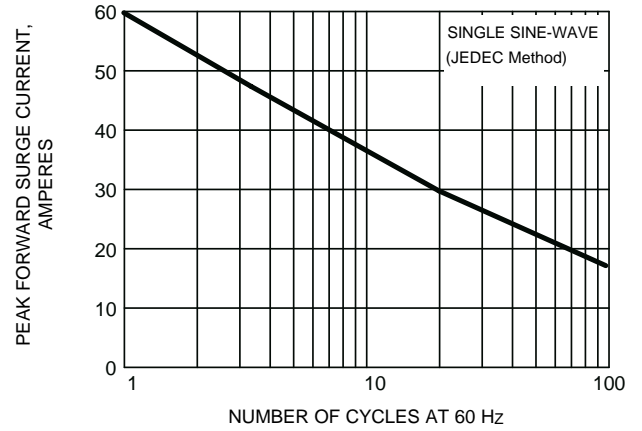


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

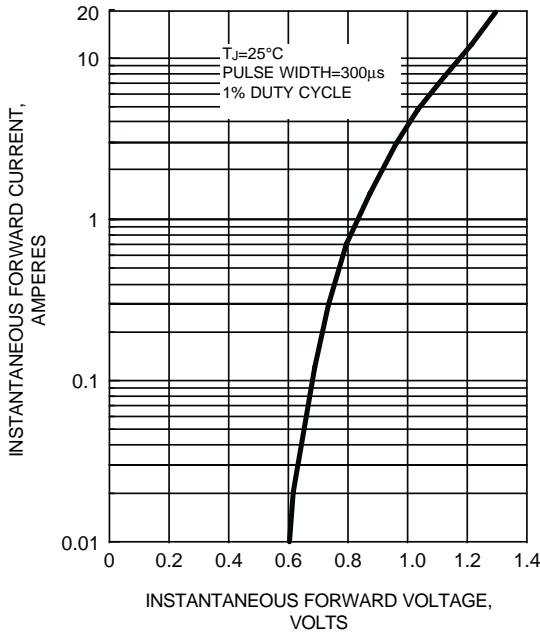


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

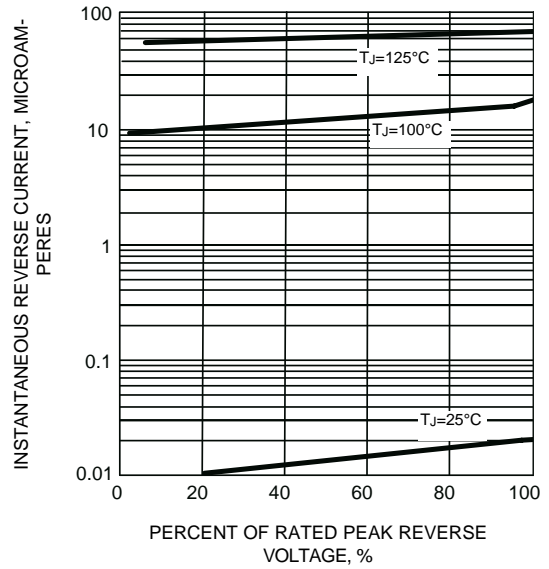
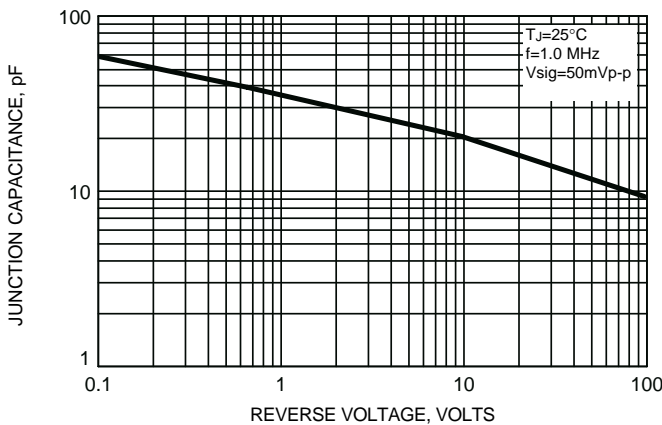


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG





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Ordering Information :

| Device | Packing |
|----------------|--------------------|
| Part Number-BP | Bulk: 5Kpcs/Carton |

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