



Micro Commercial Components



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KBP005M THRU KBP10M

1.5 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

Features

- UL Recognized File # E165989
- Marking : type number
- Glass Passivated Die Construction
- High Surge Current Capabilit
- Case Material: Molded Plastic.UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 3)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

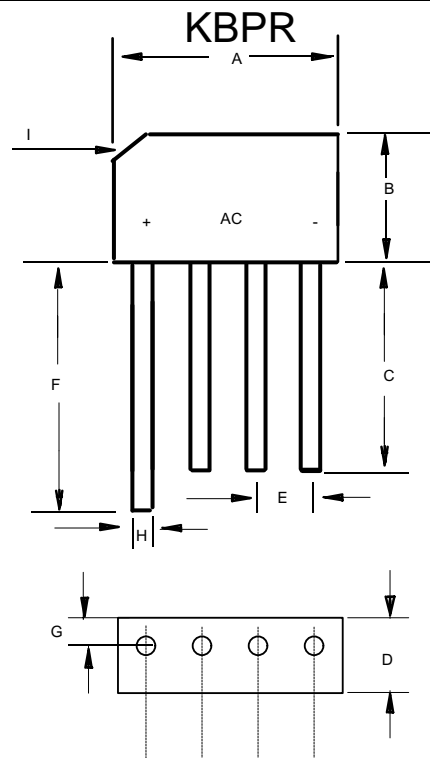
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|--|---------------------|-----------------------------|
| KBP005M | 50V | 35V | 50V |
| KBP01M | 100V | 70V | 100V |
| KBP02M | 200V | 140V | 200V |
| KBP04M | 400V | 280V | 400V |
| KBP06M | 600V | 420V | 600V |
| KBP08M | 800V | 560V | 800V |
| KBP10M | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 1.5A | $T_a = 50^\circ\text{C}$ Note1 |
| Peak Forward Surge Current | I_{FSM} | 50A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.1V | $I_F = 1.5\text{A}$ per element; $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10 μA 0.5mA | $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$ |
| Typical Junction Capacitance per element | C_j | 15PF | Measured at 1MHZ, VR=4V(DC) |
| Typical Thermal Resistance | Rthja | 28 K/W | Note2 |

- Note: 1. Leads maintained at ambient temp. at a distance of 9.5mm from the case
 2. Mounted on PC board with 12mm² copper pad
 3. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7



| DIM | DIMENSION | | | | NOTE |
|-----|-----------|------|--------|-------|------|
| | INCHES | | MM | | |
| A | .560 | .600 | 14.32 | 15.24 | |
| B | .420 | .460 | 10.70 | 11.70 | |
| C | .500 | --- | 12.70 | --- | |
| D | .132 | .144 | 3.35 | 3.65 | |
| E | .140 | .160 | 3.60 | 4.10 | |
| F | .600 | --- | 15.24 | --- | |
| G | .035 | .047 | 0.90 | 1.20 | |
| H | .028 | .034 | 0.76 | 0.86 | |
| I | 0.12X45 | | 3.0X45 | | |

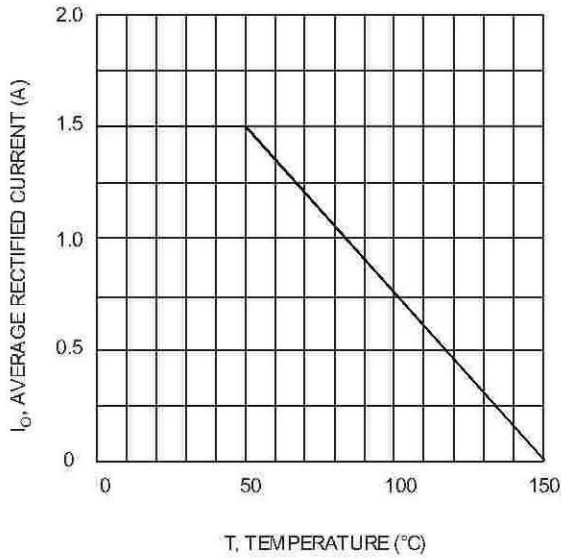


Fig. 1 Forward Current Derating Curve

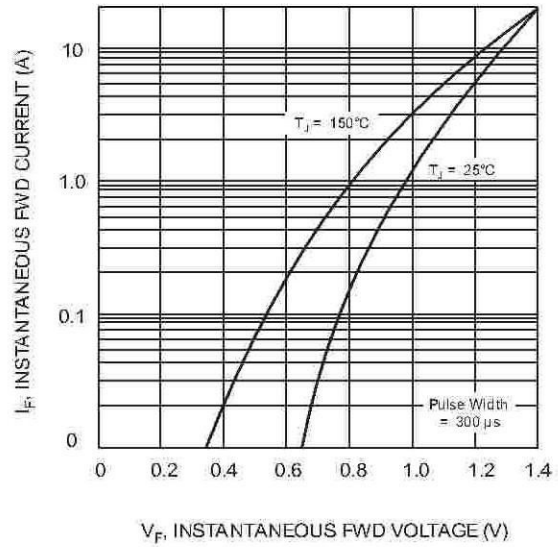


Fig. 2 Typical Fwd Characteristics

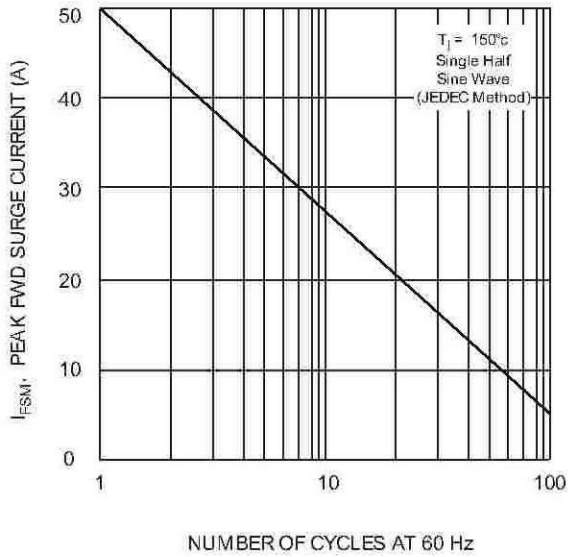


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

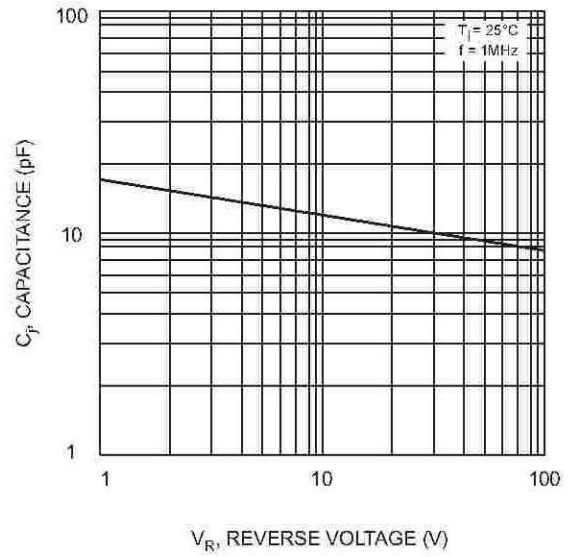


Fig. 4 Typical Junction Capacitance

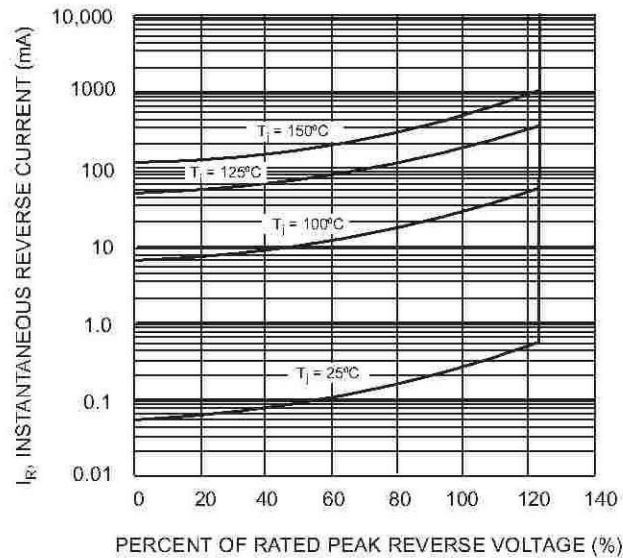


Fig. 5 Typical Reverse Characteristics



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Ordering Information

| | |
|------------------|----------------|
| Device | Packing |
| (Part Number)-BP | Bulk;4Kpcs/Ctn |

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