

KBP005G - KBP10G

1.5A GLASS PASSIVATED BRIDGE RECTIFIER

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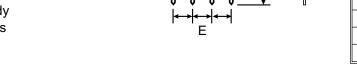
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Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 40A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material UL Flammability Classification 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

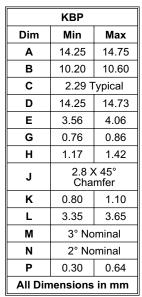
Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Approx. Weight: 1.52 grams
- Mounting Position: Any
- Marking: Type Number



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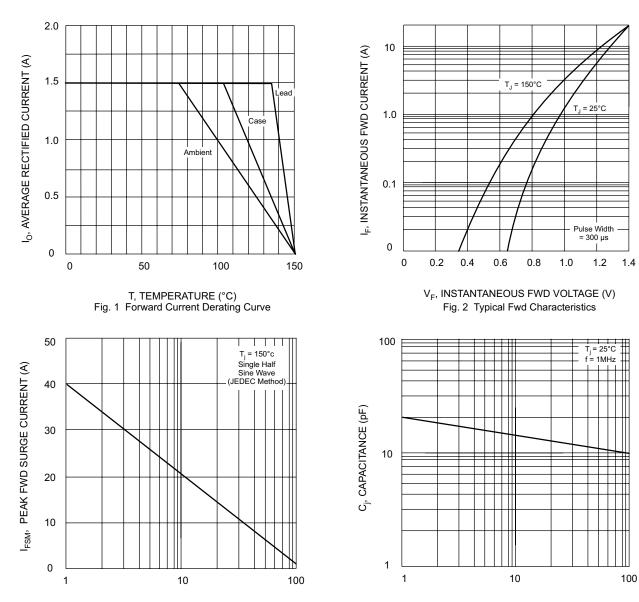


Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

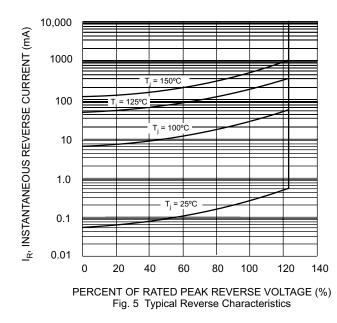
| Characteristic | Symbol | KBP 005G | KBP 01G | KBP 02G | KBP 04G | KBP 06G | KBP 08G | KBP 10G | Unit |
|--|--|-------------|------------|------------|------------|------------|------------|------------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @ T _C = 105°C | lo | 1.5 | | | | | | | Α |
| Non-Repetitive Peak Forward Surge Current, 8.3 ms singl half-sine-wave superimposed on rated load (JEDEC method) | e I _{FSM} | 40 | | | | | | | А |
| Forward Voltage per element $@ I_F = 1.5A$ | VFM | 1.1 | | | | | | | V |
| Peak Reverse Current@Tc = 25°Cat Rated DC Blocking Voltage@ Tc = 125°C | I _{RM} | 5.0 500 | | | | | | | μA |
| Typical Junction Capacitance per(Note 1) | Cj | 20 | | | | | | | pF |
| Typical Thermal Resistance, junction to case (Note 2) | R _θ JC | 18 | | | | | | | °C/W |
| Operating and Storage Temperature Range | Tj, T _{STG} | -65 to +150 | | | | | | | °C |

Notes: 1. Thermal resistance from junction to case per element. Unit mounted on 300 x 300 x 1.6mm aluminum plate heat sink. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance



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