

KBP005G - KBP10G

1.5A GLASS PASSIVATED BRIDGE RECTIFIER

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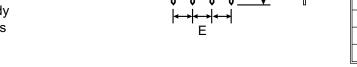
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Features

- 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

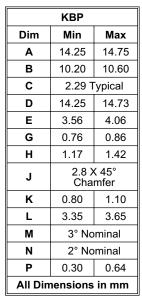
Mechanical Data

- 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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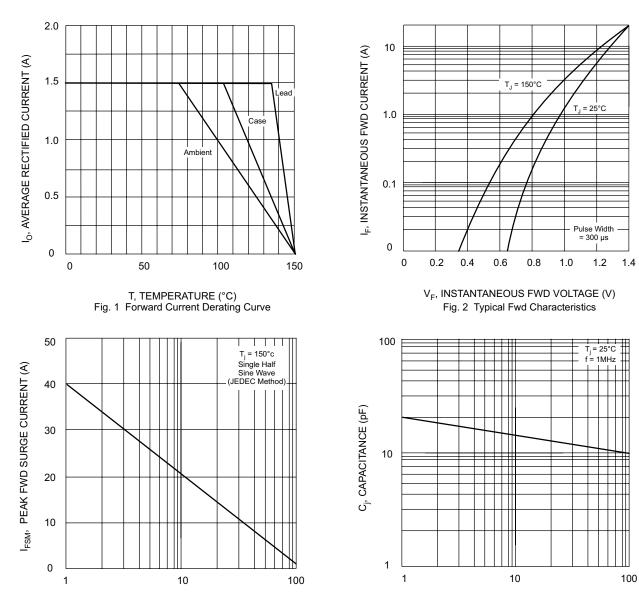


Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

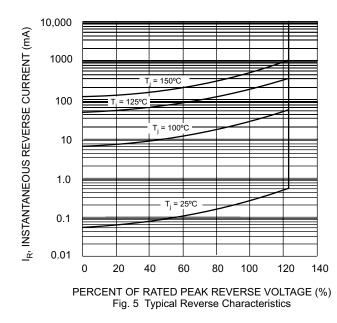
Characteristic	Symbol	KBP 005G	KBP 01G	KBP 02G	KBP 04G	KBP 06G	KBP 08G	KBP 10G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output 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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