

3.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER - 50V-100V KBP PACKAGE

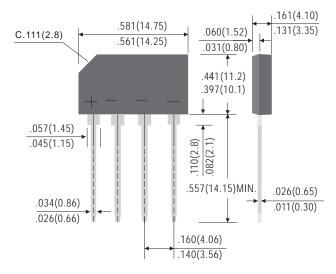
KBP3005G THRU KBP310G

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 65 Amperes peak
- * Mounting position: Any
- * RoHS product for packing code suffix "G"
 Halogen free product for packing code suffix "H"
- *Moisture Sensitivity Level 1

MECHANICAL DATA

- * UL listed the recognized component directory, file #E195711
- * Epoxy: Device has UL flammability classification 94V-O
- * Weight: 1.5 grams (approximate)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive of inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	KBP3005G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	UNIT
Marking Code		KBP3005G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	50	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	lo	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	65						Amps	
Typical Thermal Resistance (Note 2)	Roja/Rojl	L 32 / 13							°C/W
Typical Junction Capacitance (Note 1)	CJ	25							рF
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TsTg	-55 to +150							°C

CHARACTERISTICS		SYMBOL	KBP3005G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	UNIT
Maximum Forward Voltage at 3.0A DC		VF	1.1							Volts
Maximum Average Reverse Current at	@Tc=25℃	lo.	5.0							μAmps
Rated DC Blocking Voltage	@Tc=100°C	IR	500							

NOTES :1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.47 x 0.47"(12 x 12mm)copper pads.



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RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

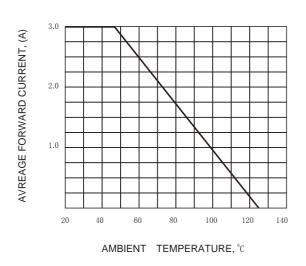
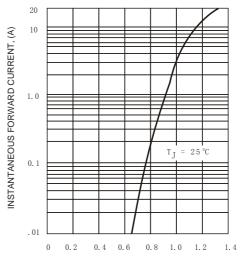


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

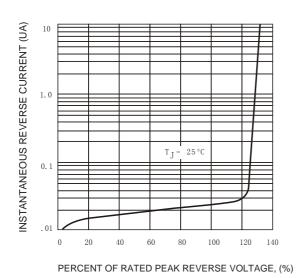
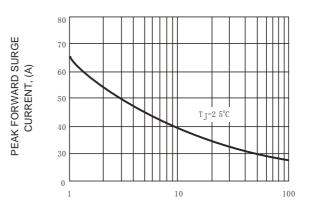


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz