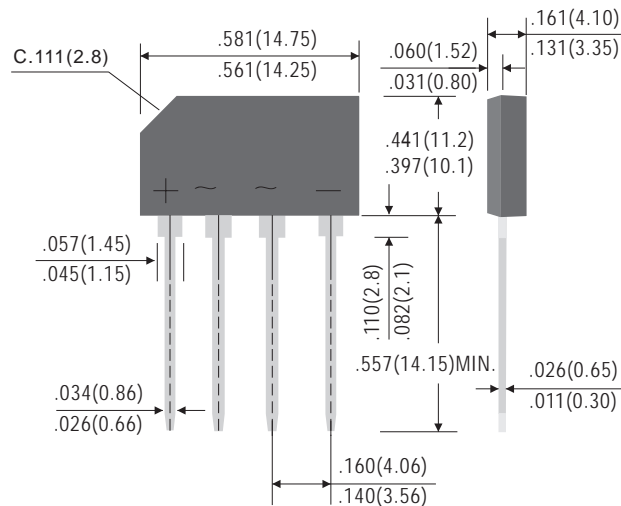


**3.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER - 50V-100V
KBP PACKAGE**
FEATURES

- * 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-0
- * 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 or 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		V _{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage		V _{RMS}	50	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Current		I _o	3.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	65								Amps
Typical Thermal Resistance (Note 2)		R _{θJA} /R _{θJL}	32 / 13								°C/W
Typical Junction Capacitance (Note 1)		C _J	25								pF
Operating Temperature Range		T _J	-55 to +150								°C
Storage Temperature Range		T _{sTG}	-55 to +150								°C

CHARACTERISTICS		SYMBOL	KBP3005G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	UNIT	
Maximum Forward Voltage at 3.0A DC		V _F	1.1								Volts
Maximum Average Reverse Current at		I _R	5.0								μAmps
Rated DC Blocking Voltage			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.

RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

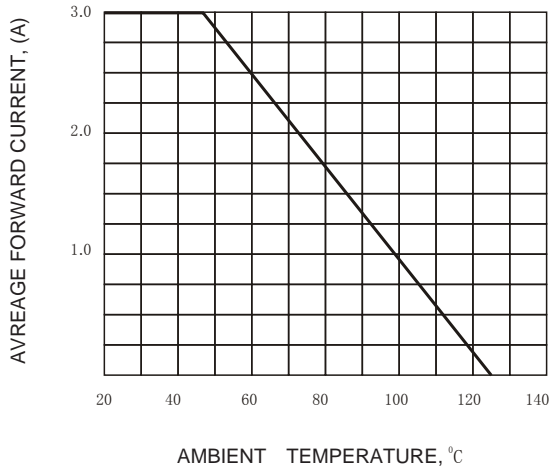


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

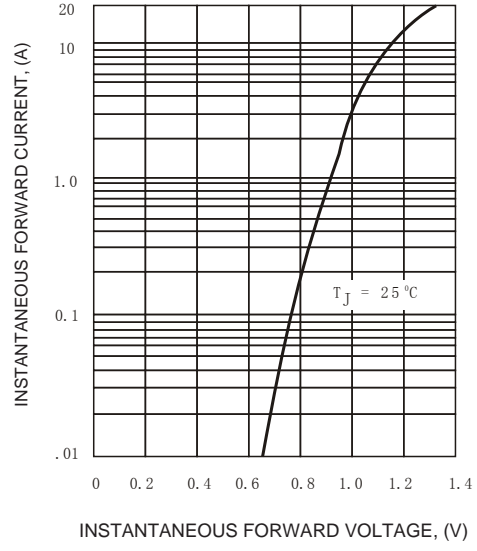


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

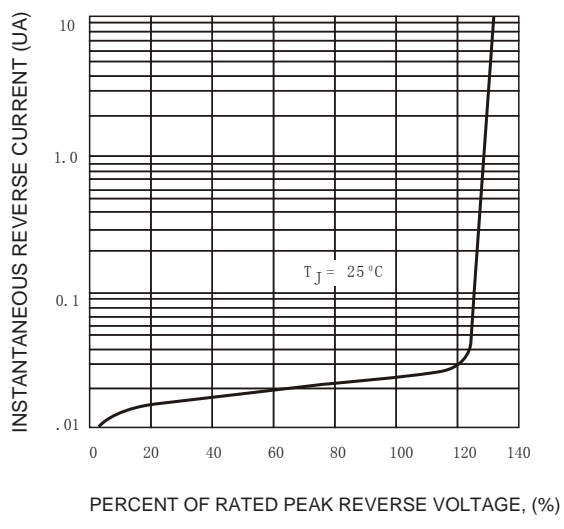


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

