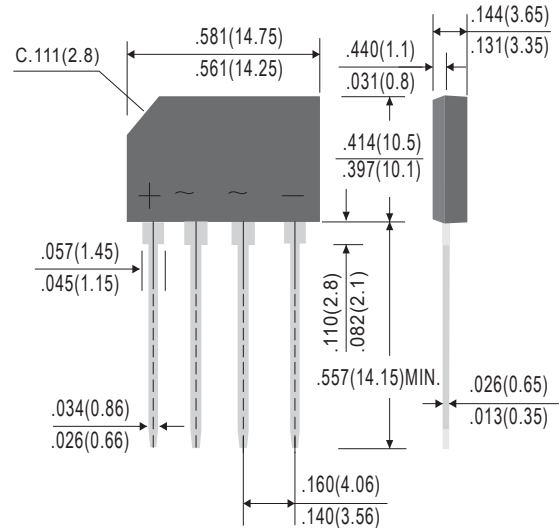


FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 80 Amperes peak
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Mounting position: Any
- * Weight: 0.15 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	KBP301G	KBP302G	KBP303G	KBP304G	KBP306G	KBP308G	KBP310G	UNIT
Marking Code		KBP301G	KBP302G	KBP303G	KBP304G	KBP306G	KBP308G	KBP310G	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	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 at T _c = 125°C	I _o	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80							Amps
Typical Thermal Resistance (Note 2)	R _{θJA}	32 / 13							°C/W
Typical Junction Capacitance (Note 1)	C _J	25							pF
Operating Temperature Range	T _J	-55 to +125							°C
Storage Temperature Range	T _{sTG}	-55 to +150							°C

CHARACTERISTICS	SYMBOL	KBP301G	KBP302G	KBP303G	KBP304G	KBP306G	KBP308G	KBP310G	UNIT
Maximum Forward Voltage at 3.0A DC	V _F	1.10							Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R	5.0							μAmps
		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

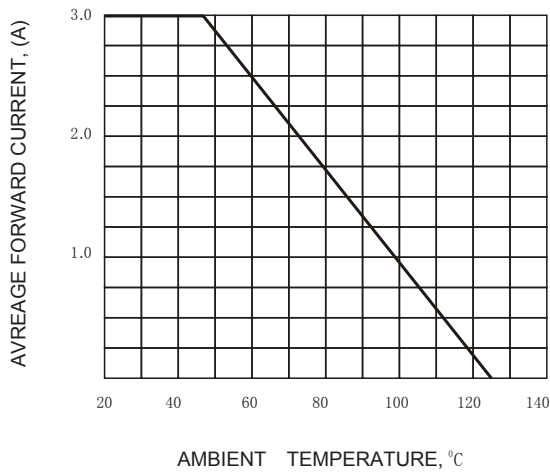


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

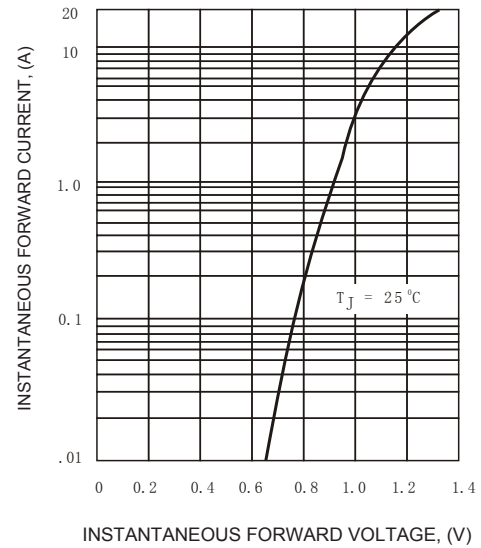


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

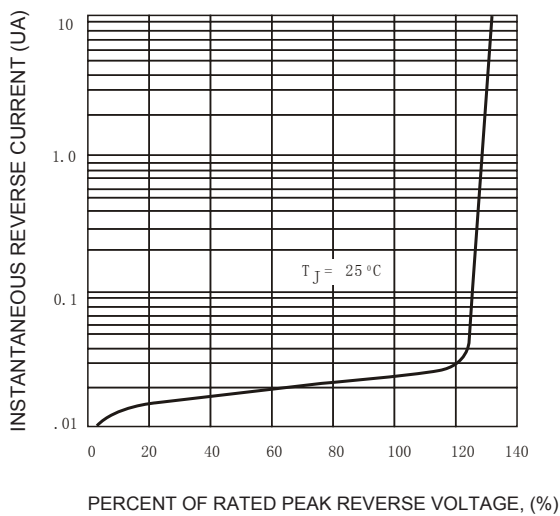


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

