



2.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER - 50V-1000V

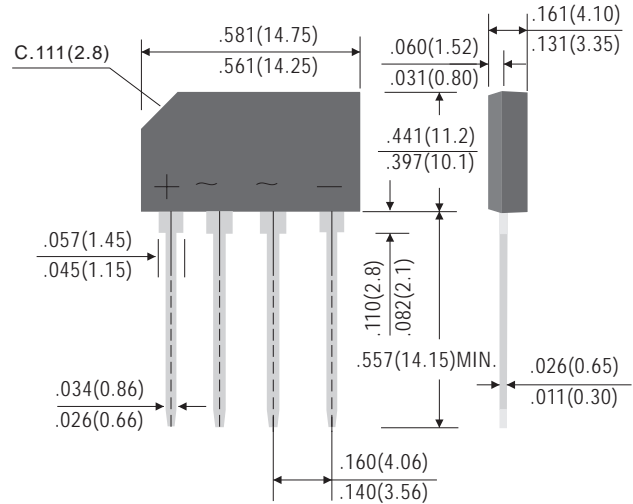
KBP PACKAGE

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 55 Amperes peak
- * Mounting position: Any
- * Weight: Approximated 1.5 grams
- * 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



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	KBP2005G	KBP201G	KBP202G	KBP204G	KBP206G	KBP208G	KBP210G	UNIT
Marking Code		KBP2005G	KBP201G	KBP202G	KBP204G	KBP206G	KBP208G	KBP210G	
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	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	55							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	KBP2005G	KBP201G	KBP202G	KBP204G	KBP206G	KBP208G	KBP210G	UNIT	
Maximum Forward Voltage at 2.0A DC	V _F	1.1							Volts	
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R	@T _c =25°C	5.0							μAmps
		@T _c =100°C	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

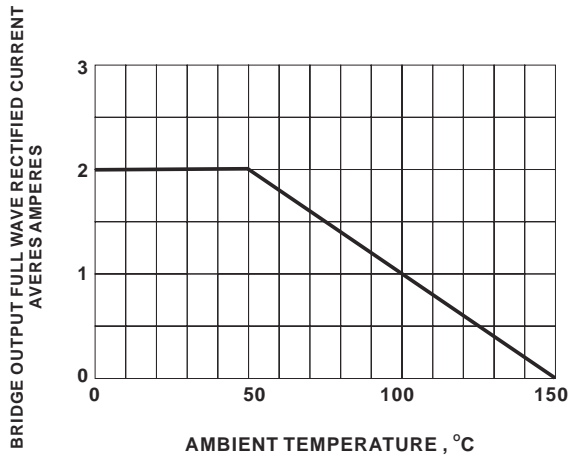


Fig.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

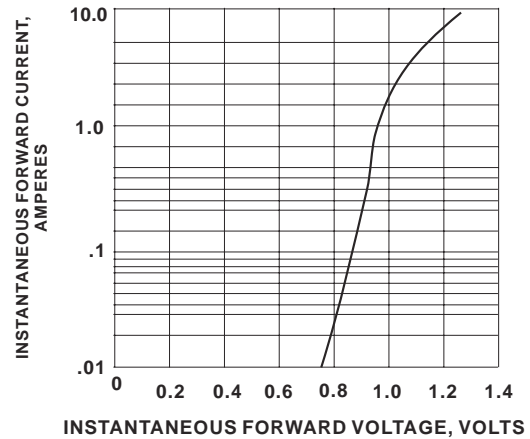


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

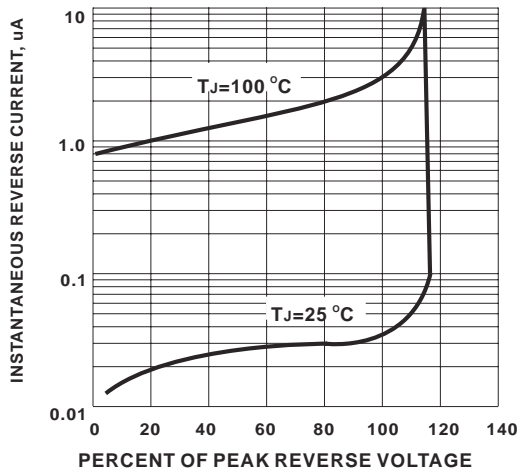


Fig.3 TYPICAL PEAK REVERSE CHARACTERISTICS

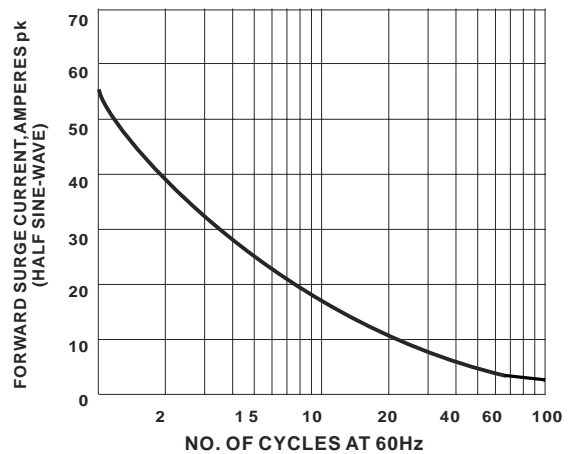


Fig.4 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT