

**FEATURES**

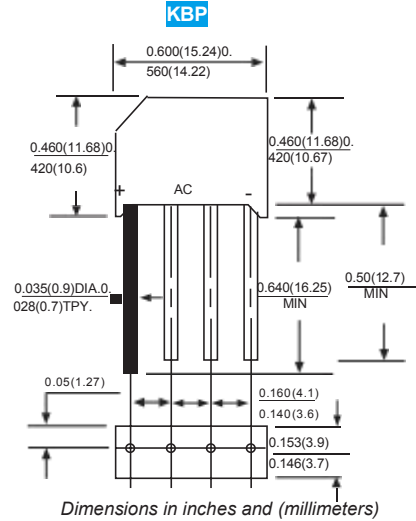
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Weight: 4.8 grams

**VOLTAGE RANGE**

600 to 1000 Volts

**CURRENT**

3.0 Ampere



**AURATSAEETRAARATERSTS**

Rating 25 °C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

	Symbols	KBP306	KBP308	KBP310	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	800	1000	Volts
Maximum Average Forward Rectified Current. 0.375"(9.5mm) Lead Length at T <sub>A</sub> =50 °C	I <sub>(AV)</sub>	3.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	70			Amp
Maximum Forward Voltage at 3.0A DC and 25 °C	V <sub>F</sub>	1.1			Volts
Maximum Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10.0 500			uAmp
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	25			pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	30			°C/W
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	16			°C/W
Operating and Storage Temperature Range	T <sub>J</sub> T <sub>stg</sub>	-55 to +150			°C

**NOTES:**

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.

RATING AND CHARACTERISTIC CURVES (KBP306 THRU KBP310)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

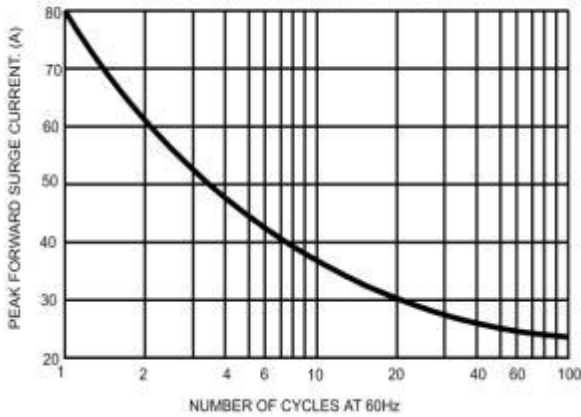


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

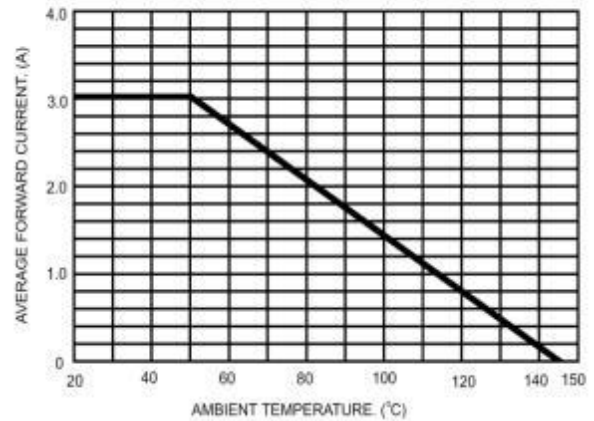


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

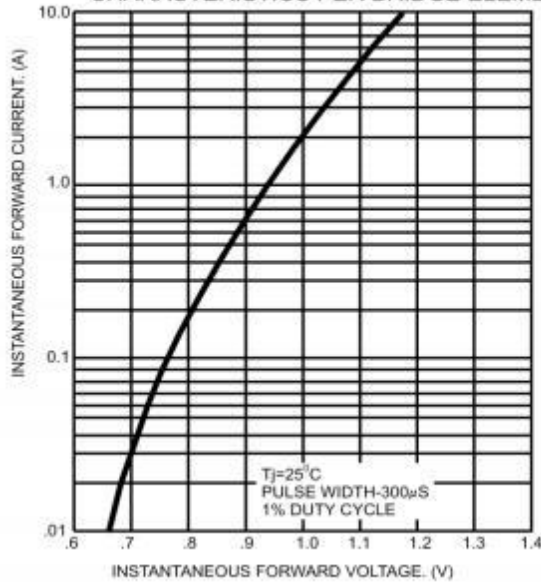


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

