



# KBP101G THRU KBP107G

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers

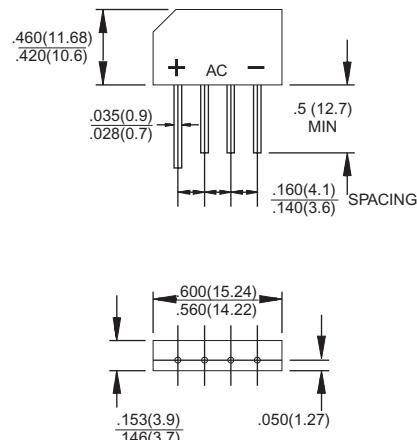


Voltage Range  
50 to 1000 Volts  
Current  
1.0 Ampere

KBP

## Features

- ◊ UL Recognized File # E-96005
- ◊ Glass passivated junction
- ◊ Ideal for printed circuit board
- ◊ Reliable low cost construction
- ◊ High surge current capability
- ◊ High temperature soldering guaranteed:  
260°C / 10 seconds at 5 lbs., ( 2.3 kg )  
tension
- ◊ Leads solderable per MIL-STD-202,  
Method 208
- ◊ Small size, simple installation



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	Symbol	KBP 101G	KBP 102G	KBP 103G	KBP 104G	KBP 105G	KBP 106G	KBP 107G	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>A</sub> = 50°C	I <sub>(AV)</sub>					1.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>					30			A
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>				1.0				V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C	I <sub>R</sub>				10				uA
					500				uA
Typical Thermal resistance (Note)	R <sub>θJA</sub> R <sub>θJL</sub>				28				°C/W
					10				
Operating Temperature Range	T <sub>J</sub>			-55 to +150					°C
Storage Temperature Range	T <sub>STG</sub>			-55 to +150					°C

Note: Thermal Resistance from Junction to Ambient and from Junction to lead Mounted onP.C.B.  
With 0.47 x 0.47" (12 x 12mm) Copper Pads.

## RATINGS AND CHARACTERISTIC CURVES (KBP101G THRU KBP107G)

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

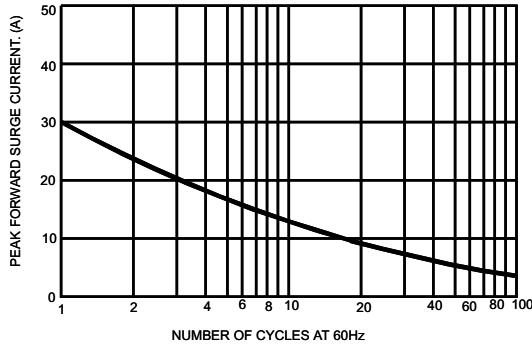


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

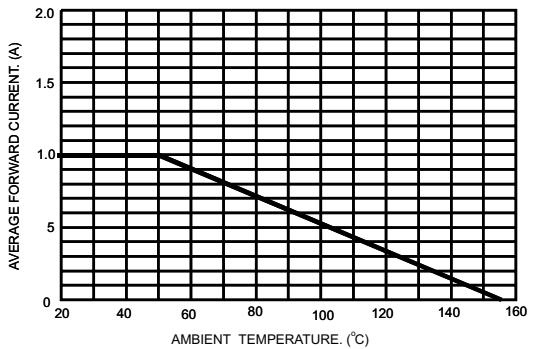


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

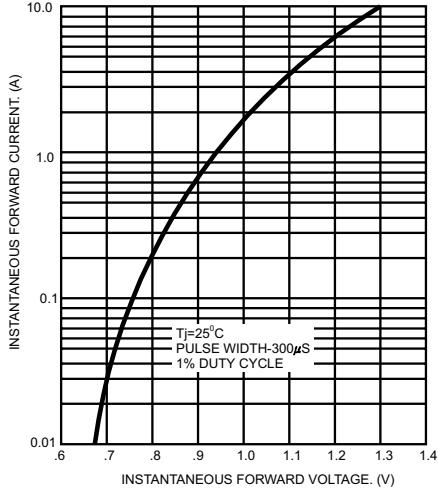


FIG.4- TYPICAL REVERSE CHARACTERISTICS

