

## KBP301G THRU KBP307G

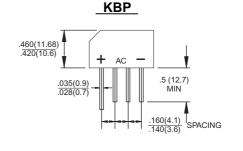
Single Phase 3.0 AMPS. Glass Passivated Bridge Rectifiers

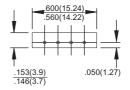


Voltage Range 50 to 1000 Volts Current 3.0 Amperes

## **Features**

- ♦ UL Recognized File # E-96005
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- → High temperature soldering guaranteed: 260 °C / 10 seconds at 5 lbs. ( 2.3 Kg ) tension
- Small size, simple installation Leads solderable per MIL-STD-202, Method 208





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 301G	KBP 302G	KBP 303G	KBP 304G	KBP 305G	KBP 306G	KBP 307G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	<b>V</b>
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$	I <sub>(AV)</sub>	3.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	80							Α
Maximum Instantaneous Forward Voltage @ 3.0A	$V_{F}$	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C	$I_R$	10							uA
at Rated DC Blocking Voltage @ T <sub>A</sub> =125℃		500						uA	
Typical Thermal Resistance (Note 1)	RθJA	30							.C\M
	RθJL				11				
Operating Temperature Range	TJ	-55 to +150							${\mathbb C}$
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							$^{\circ}$

Note 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB With  $0.47 \times 0.47$ " (12 x 12mm) Copper Pads.



## RATINGS AND CHARACTERISTIC CURVES (KBP301G THRU KBP307G)

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

80

70

60

40

20

2 4 6 10 20 40 60 100

NUMBER OF CYCLES AT 60Hz

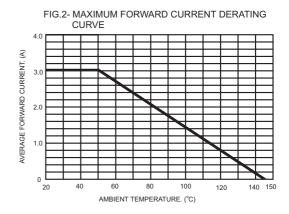


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

