

# KBP151G THRU KBP157G

Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers

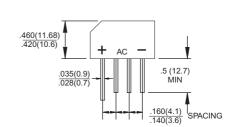


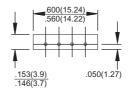
Voltage Range 50 to 1000 Volts Current 1.5 Amperes

### **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
- 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 151G	KBP 152G	KBP 153G	KBP 154G	KBP 155G	KBP 156G	KBP 157G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
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>	1.5							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	50							А
Maximum Instantaneous Forward Voltage @ 1.5A	$V_{F}$	1.1							<b>V</b>
Maximum DC Reverse Current @ T <sub>A</sub> =25°C	I <sub>R</sub>	10						uA	
at Rated DC Blocking Voltage @ T <sub>A</sub> =125℃					500				uA
Typical Thermal Resistance (Note)	RθJA	40							<b>℃W</b>
	RθJL				13				
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							ပ္

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mountedon P.C.B. With  $0.47 \times 0.47$ " (12 x 12mm) Copper Pads.

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### RATINGS AND CHARACTERISTIC CURVES (KBP151G THRU KBP157G)

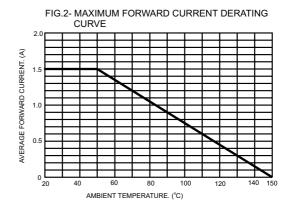


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

