

KBP301G THRU KBP307G

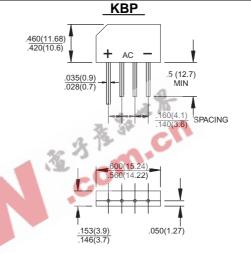
Single Phase 3.0 AMPS. Glass Passivated Bridge Rectifiers



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	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 _(AV)	3.0							Α		
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80							Α		
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	1.1							V		
Maximum DC Reverse Current @ T _A =25°C		10							uA		
at Rated DC Blocking Voltage @ T _A =125℃	I _R	500							uA		
Typical Thermal Resistance (Note)	$R\theta_{JA}$	30							℃ /W		
	$R heta_{JL}$				11				C/VV		
Operating Temperature Range	TJ	-55 to +150							Ç		
Storage Temperature Range	T _{STG}	-55 to +150							Ç		

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB With 0.4" x 0.4" (10mm x 10mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (KBP301G THRU KBP307G) FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT PEAK FORWARD SURGE CURRENT. (A) 50 40 30 20 NUMBER OF CYCLES AT 60Hz FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

