TSC 9b

KBP101G THRU KBP107G

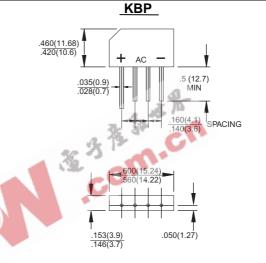
Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 1.0 Ampere

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_{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)	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	1.0							V
Maximum DC Reverse Current @ T _A =25°C	I _R	10							uA
at Rated DC Blocking Voltage @ T _A =125℃	·ĸ	500							uA
Typical Thermal Resistance (Note)	$R\theta_{JA}$	28							°C/W
	$R heta_{JL}$				10				
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	T _{STG}	-55 to +150							${\mathbb C}$

Note: Thermal Resistance from Junction to Ambient and from Junction to lead Mounted on P.C.B. With 0.2" x 0.2" (5mm x 5mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (KBP101G THRU KBP107G)

