

KBU401G THRU KBU407G

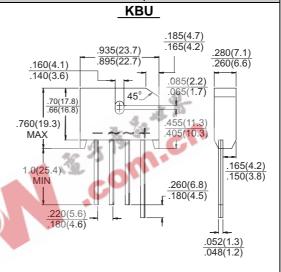
Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 4.0 Amperes

Features

- ♦ UL Recognized File # E-96005
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- ♦ Reliable low cost construction
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Surge overload rating to 150 amperes peak
- High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 0. 3 ounce, 8.0 grams
- ♦ Mounting torque: 5 in. lbs. Max.



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	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Units		
		401G	402G	403G	404G	405G	406G	407G			
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	>		
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)	4.0							Α		
Peak Forward Surge Current, 8.3 ms Single Half Sne-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							Α		
Maximum Instantaneous Forward Voltage @ 4.0A	V _F	1.1							>		
Maximum DC Reverse Current @ T _A =25°C					5.0				uA		
at Rated DC Blocking Voltage @ T _A =125℃	I _R				500				uA		
Typical Thermal Resistance (Note 1) (Note 2)	$R\theta_{JA}$	19							C/W		
	$R heta_{JL}$				4.0				C /VV		
Operating Temperature Range	TJ			-55	5 to +1	50			Ç		
Storage Temperature Range	T _{STG}			-55	to + 1	150			μ		

Notes: 1. Units Mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) Copper Pads and 0.375" (9.5mm) Lead Length.

2. Units Mounted on a 2" x 3" x 0.25" Al. Plate.

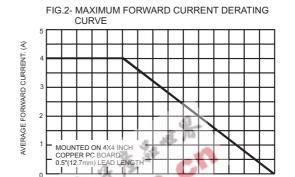


RATINGS AND CHARACTERISTIC CURVES (KBU401G THRU KBU407G)

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

175
125
125
12 5 10 20 50 100

NUMBER OF CYCLES AT 60Hz



AMBIENT TEMPERATURE. (°C)

FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

