TSC 9b

KBU601G THRU KBU607G

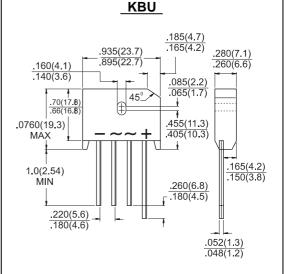
Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 6.0 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 175 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. lb. 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%

1 of capacitive load, defate current by 2076									
Type Number	Symbol	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Units
		601G	602G	603G	604G	605G	606G	607G	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	>
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 = 65°C	I _(AV)	6.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sne-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	175							Α
Maximum Instantaneous Forward Voltage @ 6.0A	V_{F}	1.0							٧
Maximum DC Reverse Current @ T _A =25°C	I _R				5.0				uA
at Rated DC Blocking Voltage @ T _A =125℃	'R				500				uA
Typical Thermal Resistance (Note 1)	$R\theta_{JA}$	8.6							℃/W
(Note 2)	$R\theta_{JC}$	3.1							
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	T _{STG}	-55 to + 150							${\mathbb C}$

Note: 1. Thermal resistance from Junction to Ambient with units in Free Air, P.C.B. Mounted on 0.5" x 0.5" (12mm x 12mm) Copper Pads, 0.375" (9.5mm) Lead Length.

^{2.} Thermal Resistance from Junction to Case with units Mounted on 2" x 3" x 0.25" Al. Plate.



RATINGS AND CHARACTERISTIC CURVES (KBU601G THRU KBU607G)

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

175

125

100

125

100

12 5 10 20 50 100

NUMBER OF CYCLES AT 60Hz

