





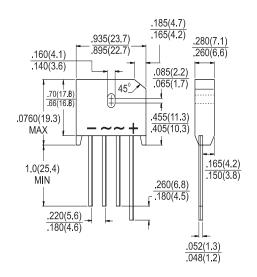
## Features

- ♦ 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
- $\diamond$  Mounting torque: 5 in. lb. max.

# **KBU601G - KBU607G**

Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers

## <u>KBU</u>



#### 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 601G	KBU 602G	KBU 603G	KBU 604G	KBU 605G	KBU 606G	KBU 607G	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A = 65 ^{\circ}C$	I <sub>(AV)</sub>	6.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	175							A
Maximum Instantaneous Forward Voltage @ 3.0A @ 6.0A	VF	1.0 1.1							V
Maximum DC Reverse Current @ $T_A=25$ °C at Rated DC Blocking Voltage @ $T_A=125$ °C	I <sub>R</sub>	5.0 500							uA uA
Typical Thermal resistance (Note 1) (Note 2)	R <sub>θJA</sub> R <sub>θJC</sub>	8.6 3.1							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							°C

Notes: 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)

