

## KBU401 - KBU407

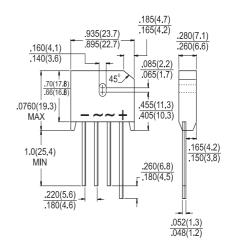


# Single Phase 4.0 AMPS. Silicon Bridge Rectifiers **KBU**



#### **Features**

- ♦ UL Recognized File # E-96005
- High surge current capability
- ♦ Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260 °C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., ( 2.3 kg ) tension
- ♦ Weight: 8 grams



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 401	KBU 402	KBU 403	KBU 404	KBU 405	KBU 406	KBU 407	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 $@T_A = 65$ °C	I <sub>(AV)</sub>	4.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	200							А
Maximum Instantaneous Forward Voltage @ 2.0A @ 4.0A	V <sub>F</sub>	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>	10 500							uA uA
Typical Thermal resistance (Note 1) (Note 2)	$R_{ heta JA} \ R_{ heta JL}$	19 4.0							°C/W
Operating Temperature Range	$T_J$	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Notes:

- 1. Units Mounted on P.C.B. with 0.5" x 0.5" (12mm x 12mm) Copper Pads and 0.375" (9.5mm) Lead Length.
- 2. Units Mounted on a 2.0" x 1.6" x 0.3" Thick (5 x 4 x 0.8cm) Al. Plate



#### RATINGS AND CHARACTERISTIC CURVES (KBU401 THRU KBU407)

