

KBU801 THRU KBU807

Single Phase 8.0 AMPS. Silicon Bridge Rectifiers

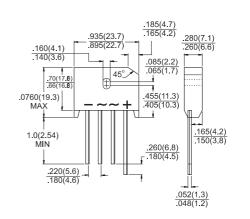


Voltage Range 50 to 1000 Volts Current 8.0 Amperes

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	KBU	KBU	KBU	KBU	KBU	Units
		801	802	803	804	805	806	807	
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	>
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 65^{\circ}C$	I _(AV)	8.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	300							Α
Maximum Instantaneous Forward Voltage @ 8.0A	V_{F}	1.1							V
Maximum DC Reverse Current @ T _A =25°C	ΙR	I _R 10 500							uA
at Rated DC Blocking Voltage @ T _A =100℃	1								uA
Typical Thermal resistance (Note 1)	RθJA	10							°C/W
(Note 2)	RθJC	3.0							
Operating Temperature Range	TJ	-55 to +125							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	T _{STG}	-55 to +150							$^{\circ}\!\mathbb{C}$

Note: 1. Thermal Resistance from Junction to Ambient with units in Free Air, no Heatsink, P.C.B. Mounted on 0.5 x 0.5" (12 x 12mm) Copper Pads, 0.375" (9.5mm) Lead Length.

2. Thermal Resistance from Junction to Case with units Mounted on a 3.0 x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3cm) Al. Plate Heatsink.

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RATINGS AND CHARACTERISTIC CURVES (KBU801 THRU KBU807)

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

TA=25°C

S.300

TA=25°C

TA=25°C

S.3ms Single Half Sine Wave
JEDEC Method

100

NUMBER OF CYCLES AT 60Hz

