

KBU801 - KBU807



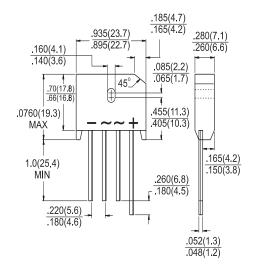
Single Phase 8.0 AMPS. Silicon Bridge Rectifiers

<u>KBU</u>



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	KBU	Units
		801	802	803	804	805	806	807	
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 $@T_A = 65 \degree C$	I _(AV)	8.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	300							A
Maximum Instantaneous Forward Voltage @ 4.0A @ 8.0A	VF	1.0 1.1							V
Maximum DC Reverse Current @ $T_A=25$ °C at Rated DC Blocking Voltage @ $T_A=125$ °C	I _R	10 500							uA uA
Typical Thermal resistance (Note 1) (Note 2)	R _{θJA} R _{θJC}	18 3.0							°C/W
Operating Temperature Range	TJ	-55 to +125							О°
Storage Temperature Range	T _{STG}	-55 to +150							٥°

Note: Thermal Resistance from Junction to Ambient and Junction to Case with units Mounted on. 2" x 3" x 0.25 Al-Plate.



RATINGS AND CHARACTERISTIC CURVES (KBU801 THRU KBU807)

300

200

100

0

0.1

0.5

2 5 10 20

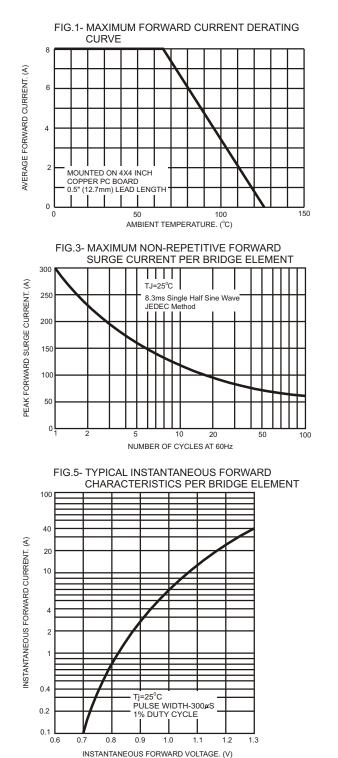


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT 10 Ti=125⁰ INSTANTANEOUS REVERSE CURRENT. (μ A) 0. Tj=25°C 0.01 0 20 40 60 80 100 120 140 PERCENT OF RATED PEAK REVERSE VOLTAGE. (%) FIG.4- TYPICAL JUNCTION CAPACITANCE 1000 600 JUNCTION CAPACITANCE.(pF) 500 Tj=25°C 400

REVERSE VOLTAGE. (V)

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500 800

200

50 100