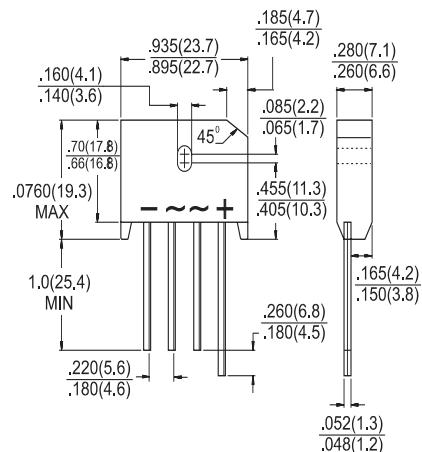




Features

- ◊ 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 801	KBU 802	KBU 803	KBU 804	KBU 805	KBU 806	KBU 807	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 @ $T_A = 65^\circ\text{C}$	$I_{(AV)}$	8.0						A	
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	V_F	1.0 1.1						V	
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	10 500						uA uA	
Typical Thermal resistance (Note 1) (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	18 3.0						°C/W	
Operating Temperature Range	T_J	-55 to +125						°C	
Storage Temperature Range	T_{STG}	-55 to +150						°C	

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)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

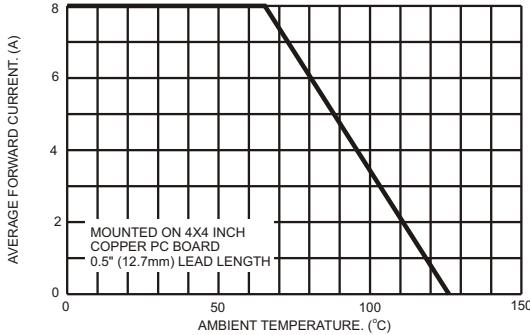


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

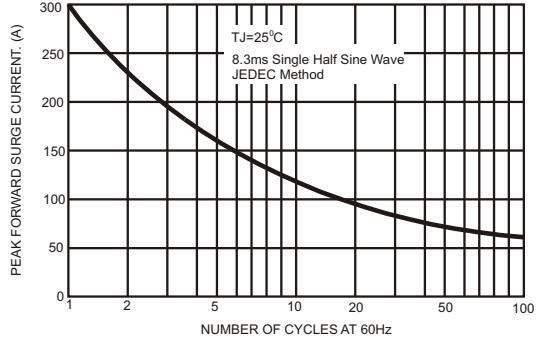


FIG.5- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

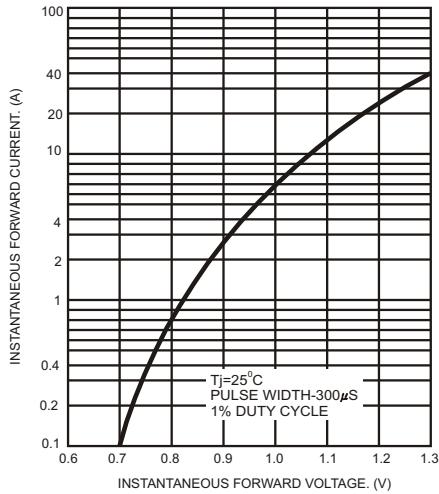


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

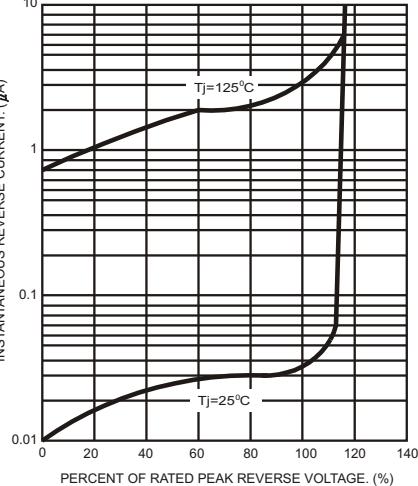


FIG.4- TYPICAL JUNCTION CAPACITANCE

