

## KBU8005 THRU KBU810

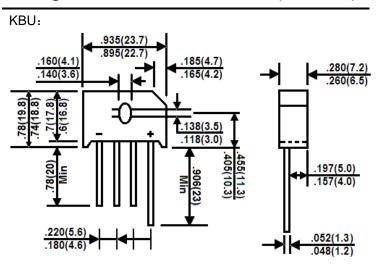
Single Phase 8.0 Amps. Glass Passivated Bridge Rectifiers

#### Features

- \* Ideal for printed circuit board
- \* Reliable low cost construction technique results in inexpensive product
- \* Plastic material has underwriters laboratory flammability classification 94V-0
- \* Surge overload rating to 200 Amperes peak



Package Outline Dimensions in inches (millimeters)



#### **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^{\circ}$ 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	Symbols	KBU 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_c=90$ °C (Note1/3) @ $T_A=45$ °C (Note2)	I <sub>F(AV)</sub>	8.0 6.0			A				
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	175		А					
Maximum Forward Voltage Drop per element at 4.0A	V <sub>F</sub>	1.10			V				
Maximum Reverse Current @ $T_A=25^{\circ}C$ at Rated D.C Blocking Voltage @ $T_A=125^{\circ}C$	I <sub>R</sub>	10 500			μA				
Typical thermal resistance per leg (Note2) (Note3)	R ₀ <sub>JA</sub> R ₀ <sub>JL</sub>	18.0 3.0			°C <b>/W</b>				
Operating Temperature Range	ΤJ	-55 to +150		°C					
Storage Temperature Range	T <sub>STG</sub>	-55 to +150		°C					

Note:

1. Recommended mounted position is to bolt down on heat sink with silicone thermal compound for maximum heat transfer with #6 screw.

2 Thermal resistance from junction to ambient with units in free air, P.C.B. mounted on 0.5×0.5" (12×12mm) copper pads, 0.375" (9.5mm) lead length

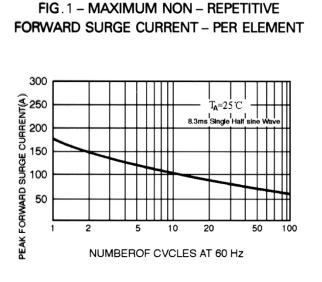
3、 Thermal resistance from junction to case with units mounted on a 3.0×3.0×0.11" (7.5×7.5×0.3cm) Cu. plate.



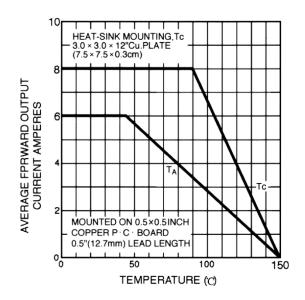
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#### **Ratings and Characteristic Curves**



### FIG.2 – TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE



### FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS – PER ELEMENT

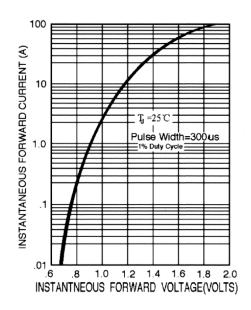
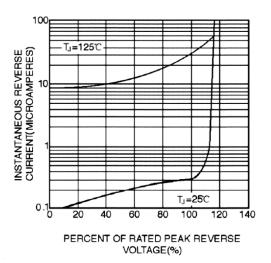


FIG.4 – TYPICAL REVERSE CHARACTERISTICS PER ELEMENT





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#### **Ordering Information**

Part No.	Package	Packing				
KBU8005~KBU810	KBU	0.4K/Tray				