

KBU8005 THRU KBU810

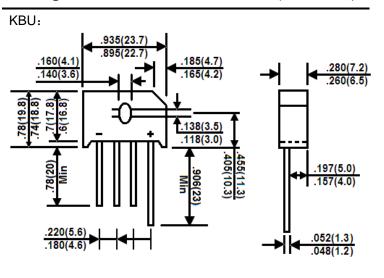
Single Phase 8.0 Amps. Glass Passivated Bridge Rectifiers

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 _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V _{DC}	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 _{F(AV)}	8.0 6.0			A				
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	175		А					
Maximum Forward Voltage Drop per element at 4.0A	V _F	1.10			V				
Maximum Reverse Current @ $T_A=25^{\circ}C$ at Rated D.C Blocking Voltage @ $T_A=125^{\circ}C$	I _R	10 500			μA				
Typical thermal resistance per leg (Note2) (Note3)	R ₀ _{JA} R ₀ _{JL}	18.0 3.0			°C /W				
Operating Temperature Range	ΤJ	-55 to +150		°C					
Storage Temperature Range	T _{STG}	-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

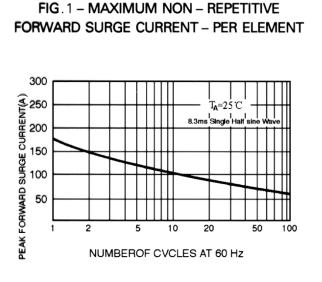


FIG.2 – TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

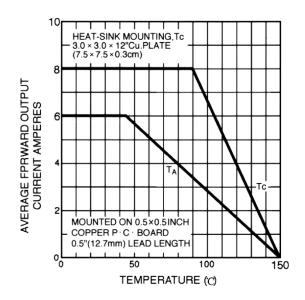


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS – PER ELEMENT

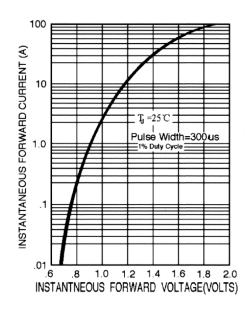
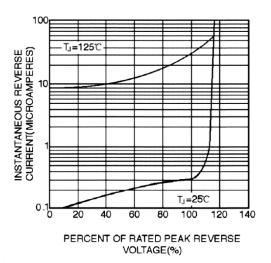


FIG.4 – TYPICAL REVERSE CHARACTERISTICS PER ELEMENT





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Ordering Information

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