

6.0A GLASS PASSIVATED BRIDGE RECTIFIER Reverse Voltage - 100 to 1000 V

Forward Current – 6.0A

FEATURES

Surge overload rating-200 amperes peak
Polarity:As marked on body
Ideal for printed circuit board

Plastic material has U/L

The flammability classification 94V-0

Reliable low cost construction utilizing molded plastic technique

MECHANICAL DATA

Case: KBU Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 8.0g /0.3oz

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	v
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	v
Maximum Average Forward $T_C=100^{\circ}C^{(Note 1)}$ Rectified Current at	I _(AV)	6.0			А			
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200				A		
Forward Voltage per element at 3.0A DC and 25°C	V _F	1.0				v		
Maximum DC Reverse Current@Ta=25°Cat Rated DC Blocking Voltage@Ta=125°C	I _R	10 500			μA			
I2t Rating for Fusing(3ms≤t≤8.3ms)	l ² t	166			A ² S			
Typical Thermal Resistance (Note2)	R _{θJA} /R _{θJC}	8.6/3.1				°C/W		
Operating and Storage Temperature Range	Tj, T _{stg}	-55 ~ +150				°C		

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Unit case mounted on 4" x 6" x 0.25" AI plate heat sink.



1

2

1.Output Cathode(-) 2.Input pin(-) 3.Input pin(-) 4.Output Anode(+) KBU



KBU601 THRU KBU610 KBU

Ratings And Characteristic Curves

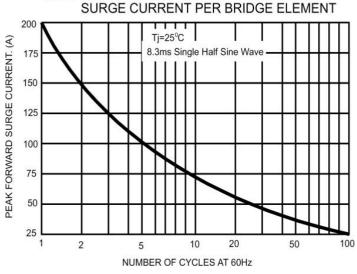


FIG.1- MAXIMUM NON-REPETITIVE FORWARD

FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

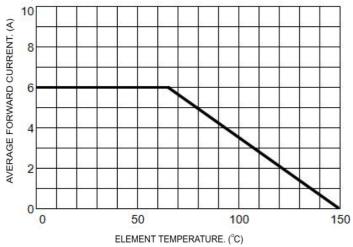
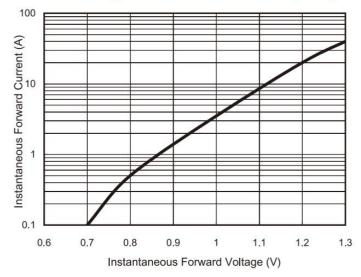


FIG 4 Typical Forward Characteristics per Leg.





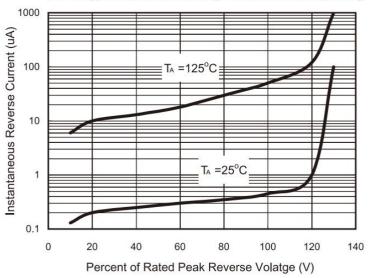
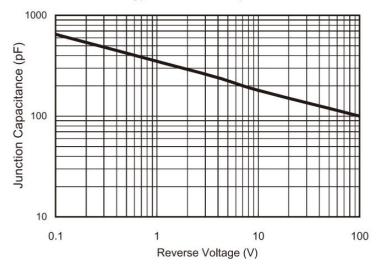
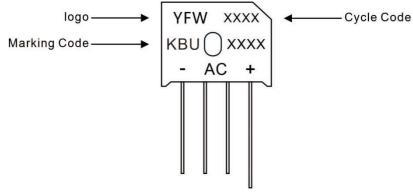


FIG 5 Typical Junction Capacitance





Marking Diagram

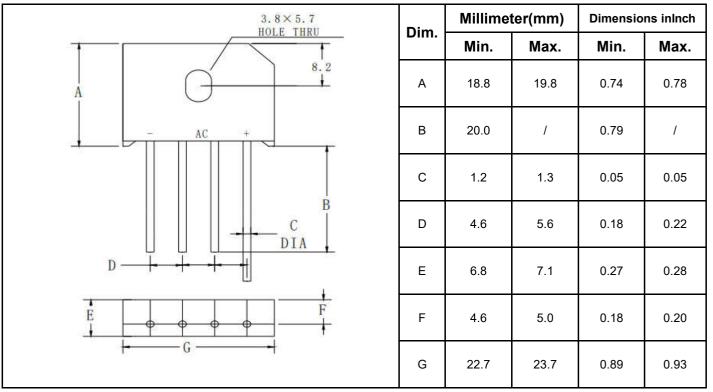


Ordering information

Package	Packing Description	Packing Quantity		
KBU	bulk	400PCS/Box 2400PCS/Carton		

Package Dimensions

KBU







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