

#### **Features**

- Ideal for P.C. Board mounting
- High surge current capability
- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension



#### **KBU**

## **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)
KBU806G	KBU	KBU806	400



## Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	KBU 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=100°C	IF(AV)	8.0							А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	180							А
Rating for fusing (t<8.3ms)	l <sup>2</sup> t	150						A <sup>2</sup> sec	
Typical thermal resistance per element (1)	ReJA	2.7							°C/W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150						°C	

### **Electrical Characteristics**

Rating at  $25^{\circ}$ C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate by 20 %.

Parameter	Symbol	KBU 8005	KBU 801	KBU 802	KBU 804	KBU 806	KBU 808	KBU 810	Unit
Maximum instantaneous forward voltage drop per leg at 8.0A	VF	1.1						V	
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	10 500						μΑ	

Notes: (1)Thermal resistance from Junction to Ambemton P.C.board mounting.



# Rating and Characteristic Curves (TA=25°C unless otherwise noted)

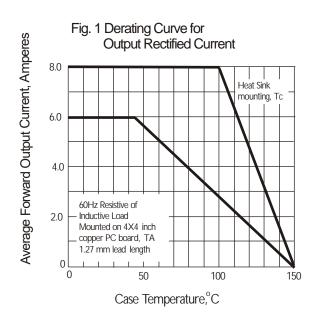


Fig. 3 Typical Instantaneous Forward Characteristics

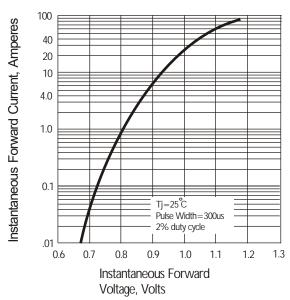


Fig. 2 Maximum Non-repetitive Peak
ForwardSurge Current

300
250
8.3ms
Single half-sine-Wave
[JEDEC Method]
100
100
100

Number of Cycles at 60HZ

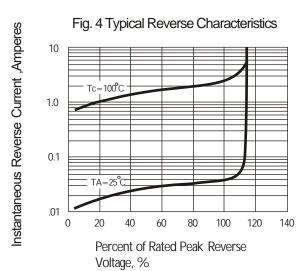
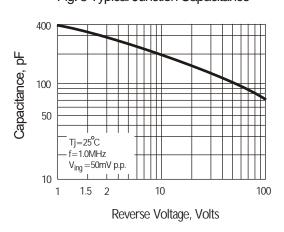


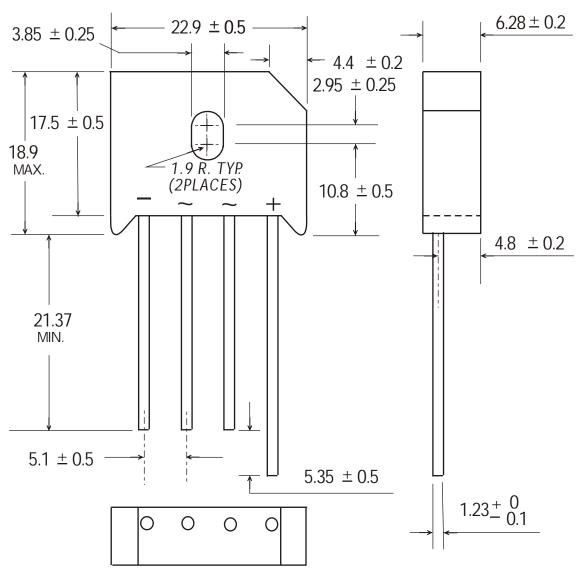
Fig. 5 Typical Junction Capacitance





# **Package Outline Dimensions**

KBU



Dimensions in millimeters(1mm =0.0394")



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