

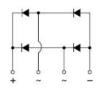
FEATURES

- 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



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
KBU8005-KBU810	KBU		400



MAXIMUM RATINGS (Ta=25 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)	ms) I ² t 150						A ² sec		
Typical thermal resistance per element (1)	ReJA	2.7					°C / W		
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							င

Electrical Characteristics

Rating at 25°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		10 500					μΑ		

 $\textbf{Notes:} \ (1) Thermal\ resistance\ from\ Junction\ to\ Ambemt\ on\ P.C. board\ mounting.$



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

Fig. 1 Derating Curve for **Output Rectified Current** 8.0 Heat Sink Average Forward Output mounting, Tc 6.0 Current, Amperes 60Hz Resistive of Inductive Load 2.0 Mounted on 4X4 inch copper PC board, TA 1.27 mm lead length 150 Case Temperature, C

Fig. 3 Typical Instantaneous Forward Characteristics

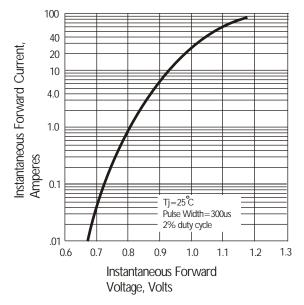


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

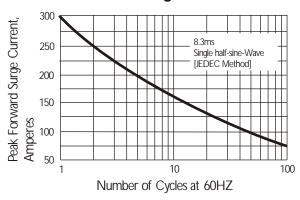


Fig. 4 Typical Reverse Characteristics

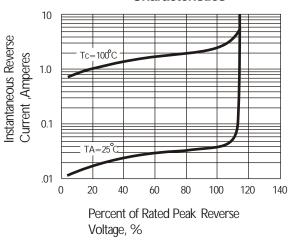
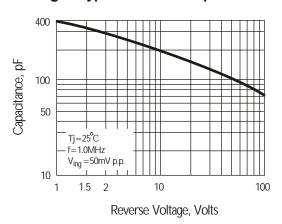
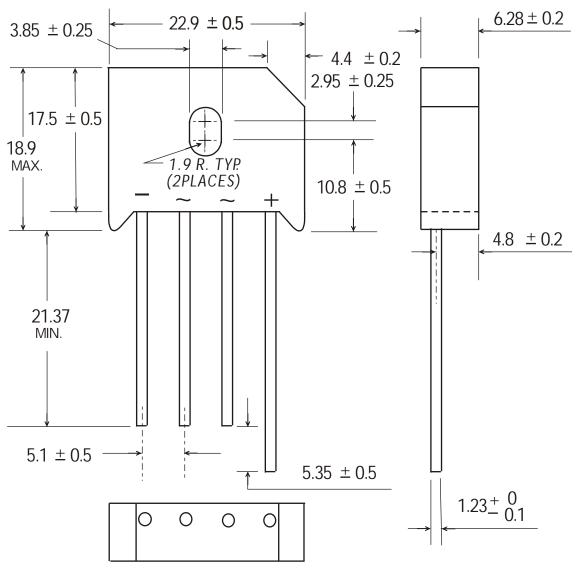


Fig. 5 Typical Junction Capacitance





KBU Package Outline Dimensions



Dimensions in millimeters(1mm =0.0394")



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