

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)
KBU15005-KBU1510	KBU	KBU15xx	400

xx: From 005-10



Maxmim Ratings (Ta=25 unless otherwise noted)

Parameter	Symbol	KBU 15005	KBU 1501	KBU 1502	KBU 1504	KBU 1506	KBU 1508	KBU 1510	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)	15							А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	300							А
Rating for fusing (t<8.3ms)	l ² t	300							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						°C	

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 15005	KBU 1501	KBU 1502	KBU 1504	KBU 1506	KBU 1508	KBU 1510	Unit
Maximum instantaneous forward voltage drop per leg at 7.5A	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 Ambemt on P.C.board mounting.



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

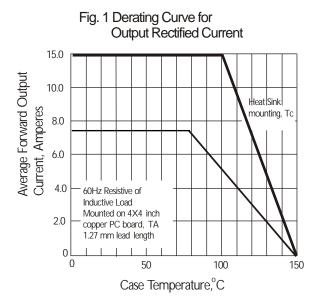
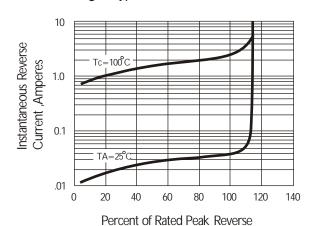


Fig. 2 Maximum Non-repetitive Peak

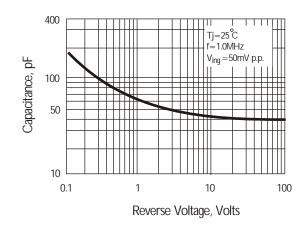
Fig. 3 Typical Instantaneous Forward Characteristics 100 40 Instantaneous Forward Current, 20 10 4.0 1.0 Tj=25°C Pulse Width=300us 2% duty cycle 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 Instantaneous Forward Voltage, Volts



Voltage, %

Fig. 4 Typical Reverse Characteristics

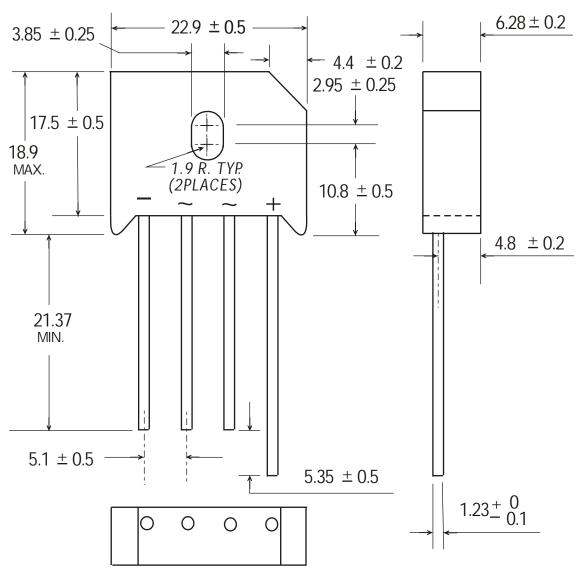
Fig. 5 Typical Junction Capacitance





Package Outline Dimensions

KBU



Dimensions in millimeters(1mm = 0.0394")



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