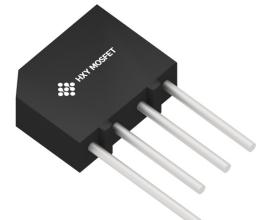


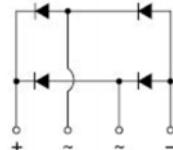


Features

- This series is UL listed under the Recognized Component Index, file number E142814
- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension



KBP



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
KBP310G	KBP	KBP310	500

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

Parameter	Symbol	KBP 3005	KBP 301	KBP 302	KBP 304	KBP 306	KBP 308	KBP 310	Unit
Maximum repetitive peak reverse voltage	VRMM	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)					3.0			A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM					80			A
Rating for fusing (t<8.3ms)	I ² t				15.0				A ² sec
Typical thermal resistance per element(1)	ReJA				10				°C/W
Typical junction capacitance per element (2)	C _j				25.0				pF
Operating junction and storage temperature range	T _J , T _{TG}				-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	KBP 3005	KBP 301	KBP 302	KBP 304	KBP 306	KBP 308	KBP 310	Unit
Maximum instantaneous forward voltage drop per leg at 3.0A	VF				1.1				V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR				5.0				μA

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

(2)Measured at 3.0MHz and applied reverse voltage of 4.0 volts.



Rating and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

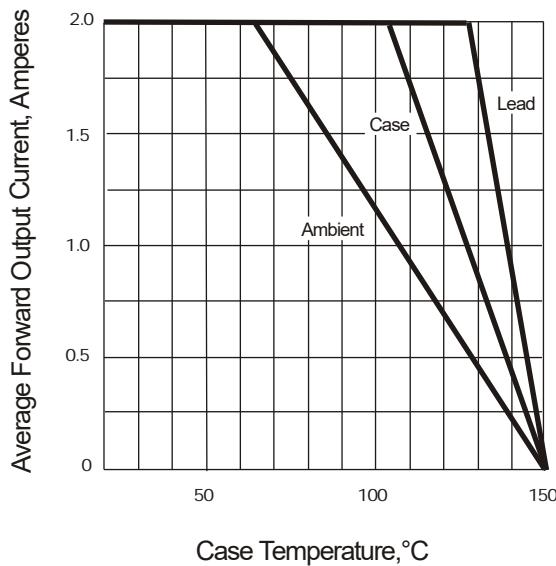


Fig. 3 Typical Instantaneous Forward Characteristics

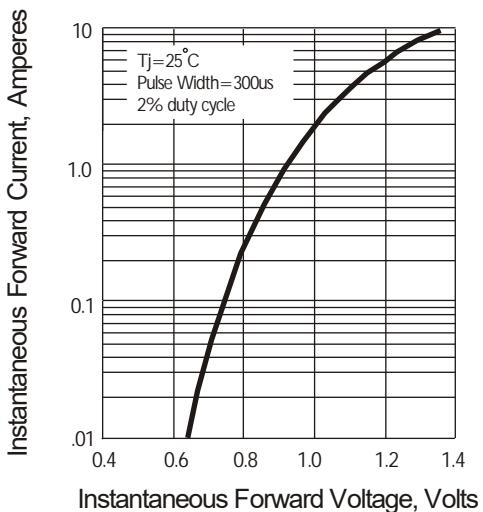


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

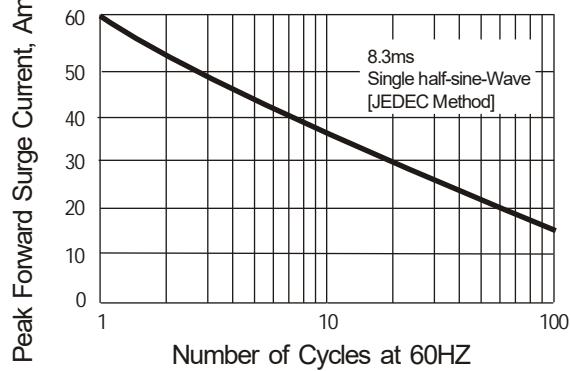


Fig. 4 Typical Reverse Characteristics

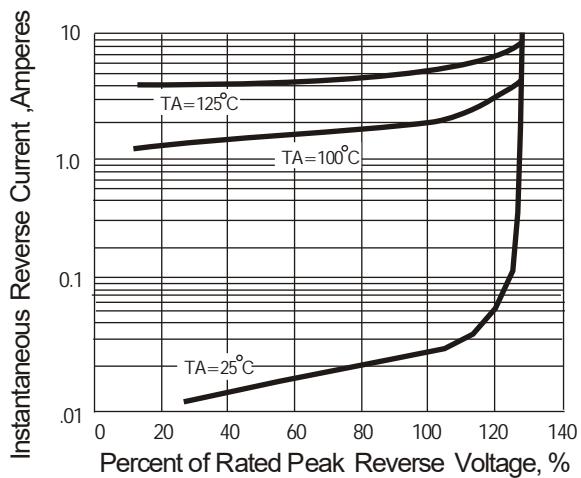
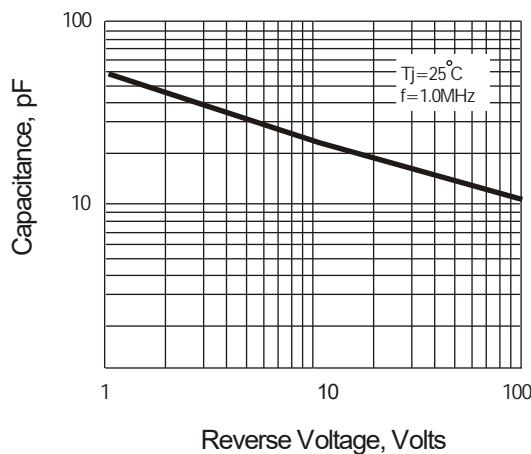


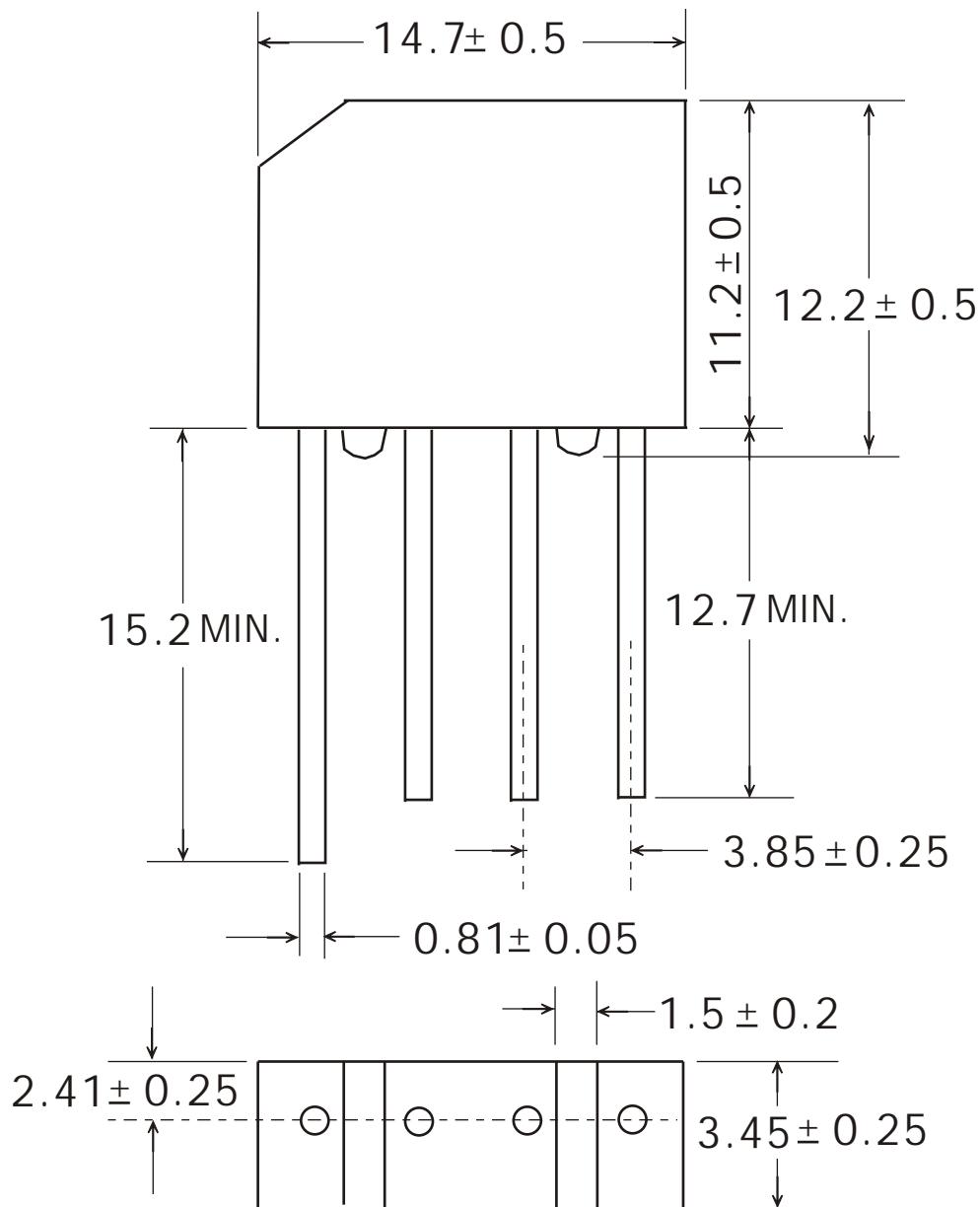
Fig. 5 Typical Junction Capacitance





Package Outline Dimensions

KBP



Dimensions in millimeters (1mm = 0.0394")



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