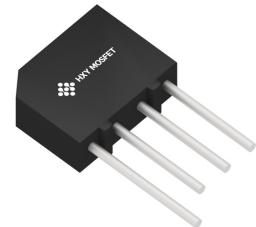


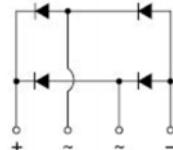


## Features

- 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**



## Ordering Information

Product ID	Pack	Qty(PCS)
S-KBP308G-TU-LT	KBP	500

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

Parameter	Symbol	KBP308G	Unit
Maximum repetitive peak reverse voltage	VRRM	800	V
Maximum RMS bridge input voltage	VRMS	560	V
Maximum DC blocking voltage	VDC	800	V
Maximum average forward rectified output current at TA=50°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 <sup>2</sup> t	15.0	A <sup>2</sup> sec
Typical thermal resistance per element(1)	ReJA	10.0	°C/W
Typical junction capacitance per element (2)	C <sub>j</sub>	25.0	pF
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>TSG</sub>	-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	KBP308G	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	10 500	μA

**Notes:** (1)Thermal resistance from Junction to Ambent 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

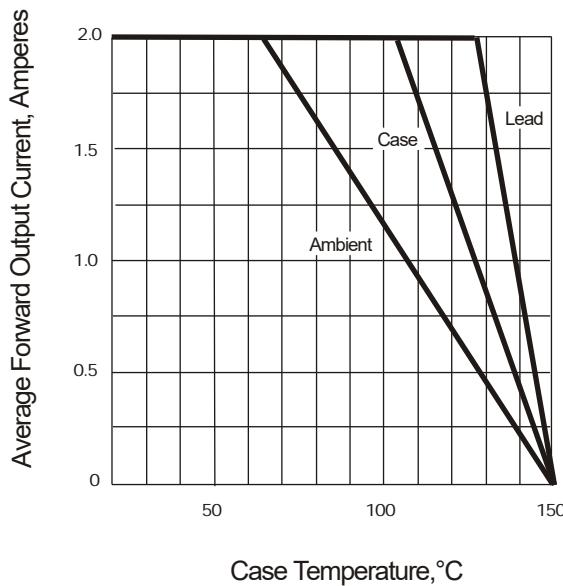


Fig. 3 Typical Instantaneous  
Forward Characteristics

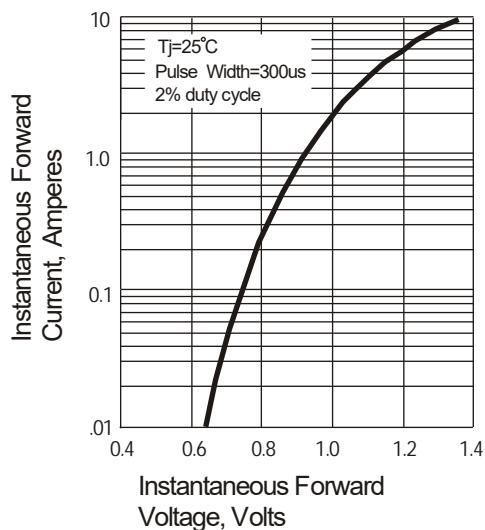


Fig. 2 Maximum Non-repetitive Peak  
Forward Surge Current

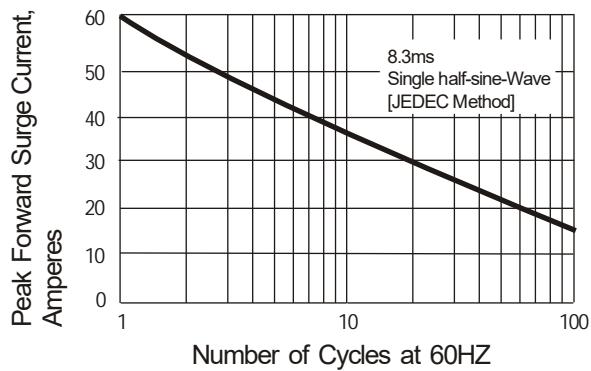


Fig. 4 Typical Reverse Characteristics

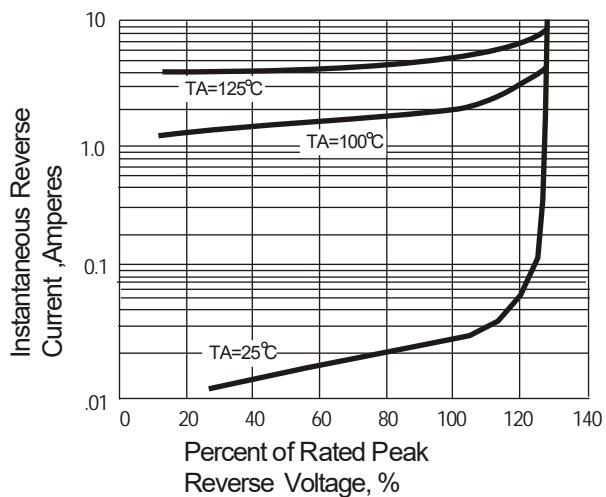
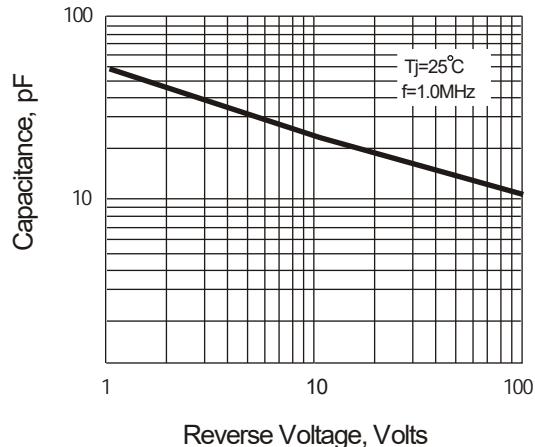
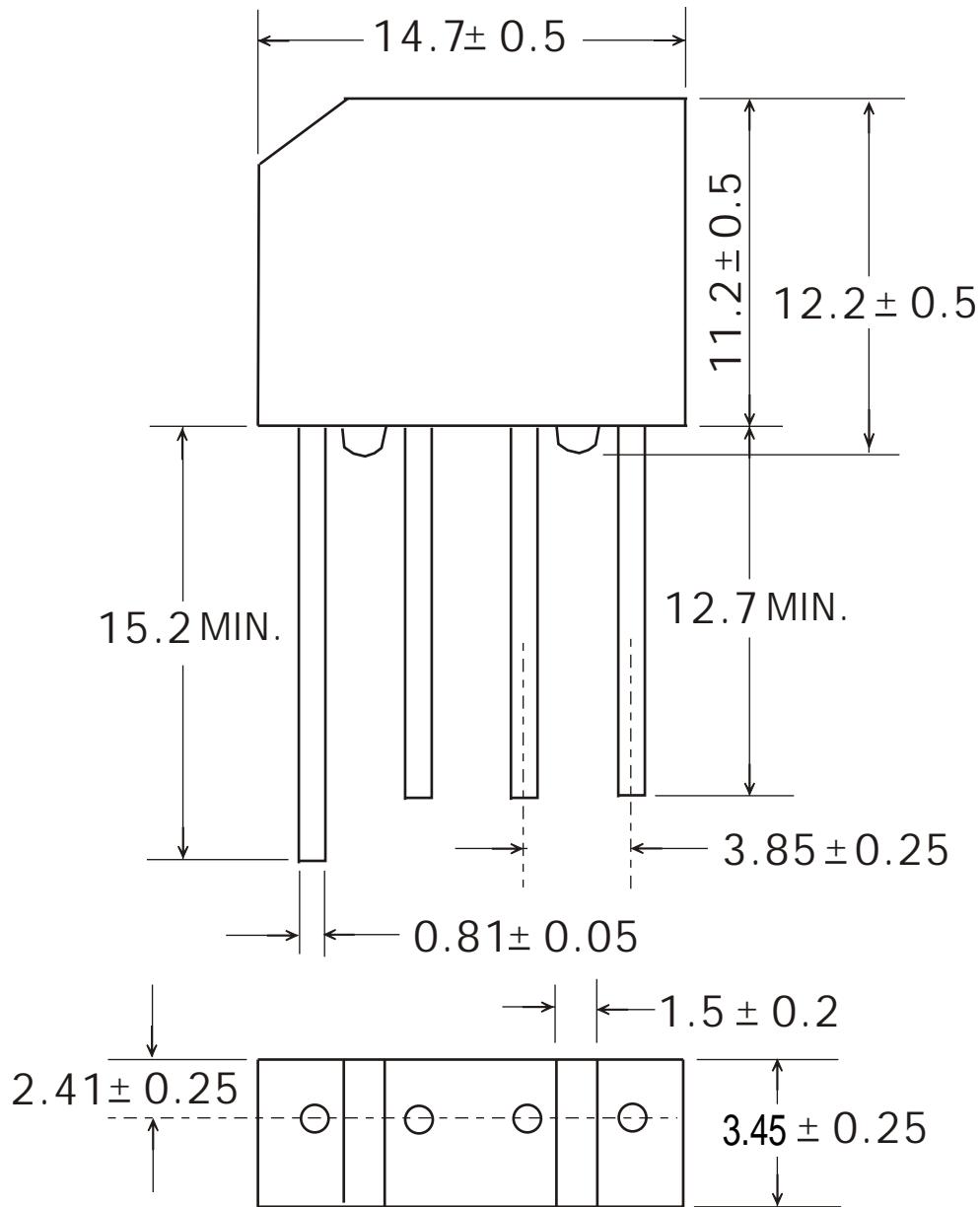


Fig. 5 Typical Junction Capacitance





**Package Outline Dimensions  
KBP**



Dimensions in millimeters(1mm =0.0394" )



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