



## FEATURES

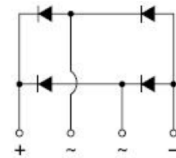
- This series is UL listed under the Recognized Component Index, file number E142814
- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High 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)
KBP307	KBP		500



## MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Parameter	Symbol	KBP307	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)	Cj	25.0	pF
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 %.

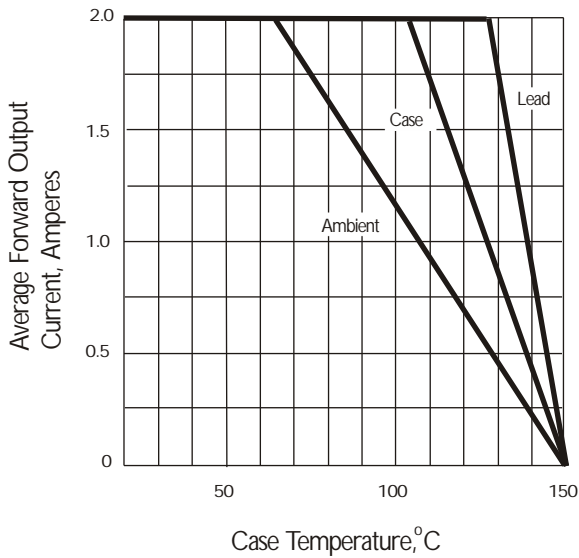
Parameter	Symbol	KBP307	Unit
Maximum instantaneous forward voltage drop per leg at 3.0A	VF	1.1	V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	10 500	μA

**Notes:** (1)Thermal resistance from Junction to Ambient on P.C.board mounting.  
(2)Measured at 3.0MHz and applied reverse voltage of 4.0 volts.

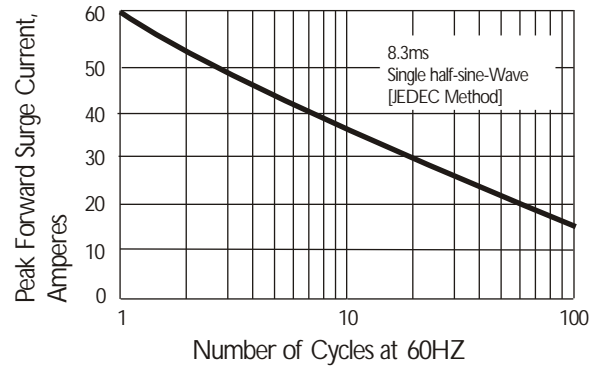


### Rating and Characteristic Curves ( $T_A=25^{\circ}\text{C}$ Unless otherwise noted )

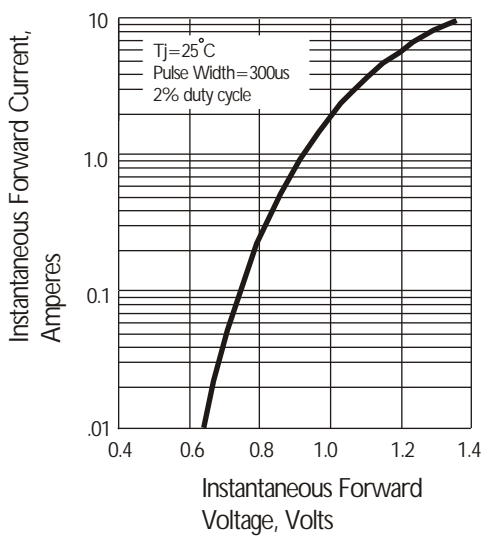
**Fig. 1 Derating Curve for Output Rectified Current**



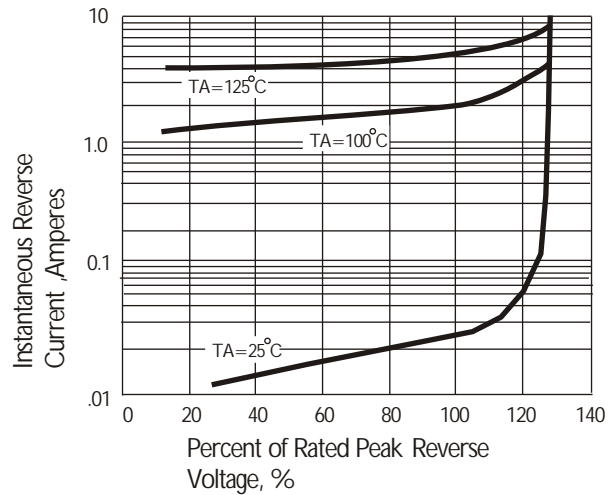
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



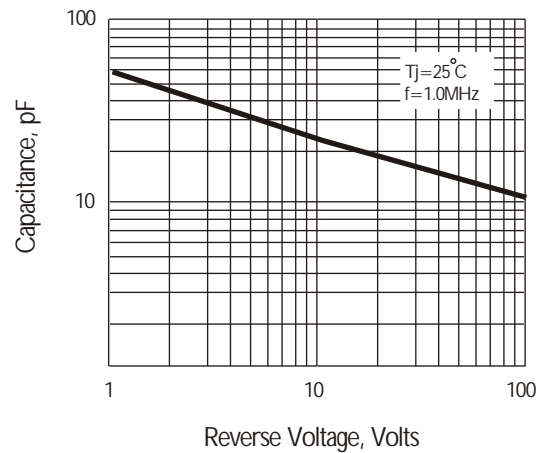
**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 4 Typical Reverse Characteristics**

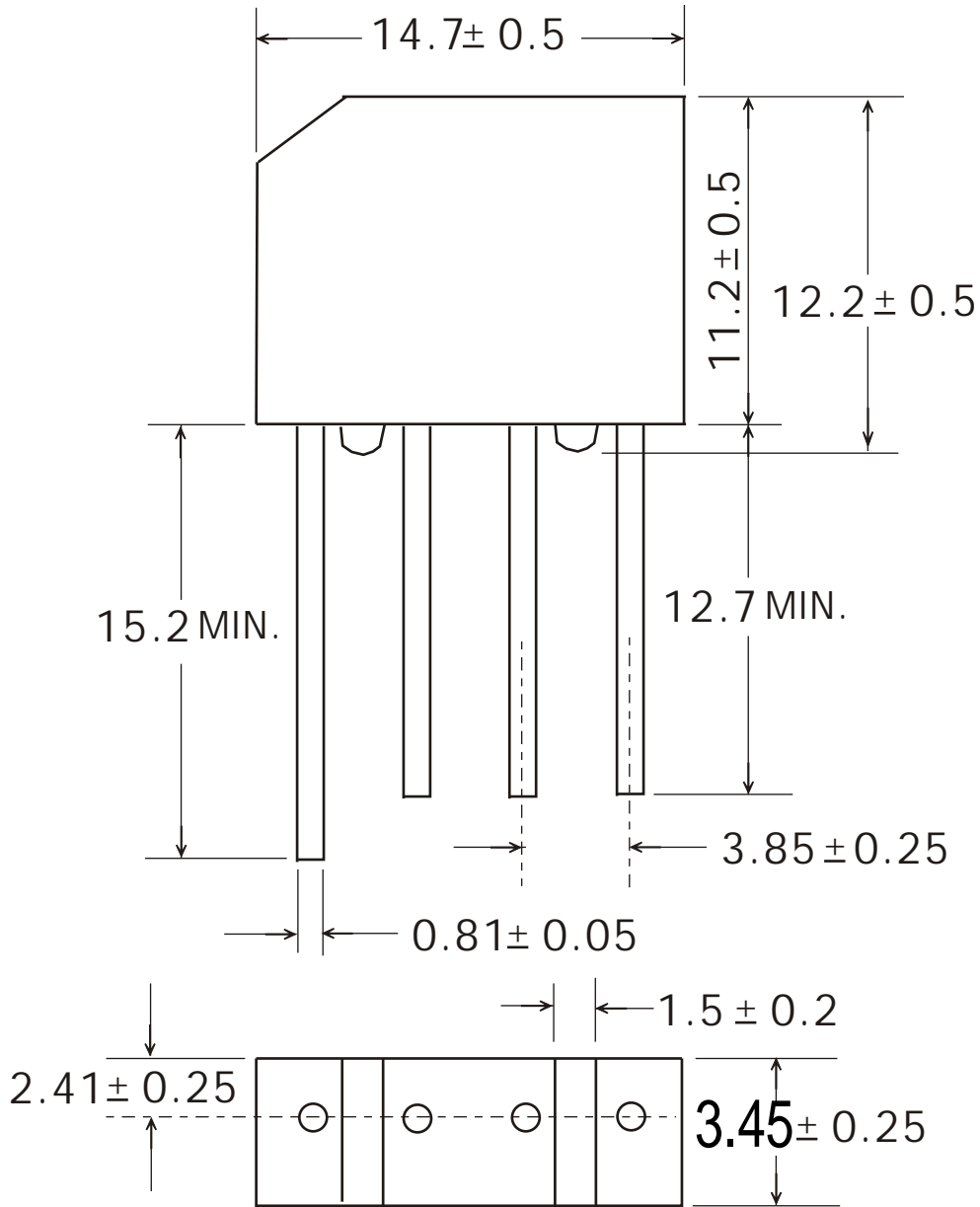


**Fig. 5 Typical Junction Capacitance**





### KBP Package Outline Dimensions



Dimensions in millimeters(1mm =0.0394")



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