

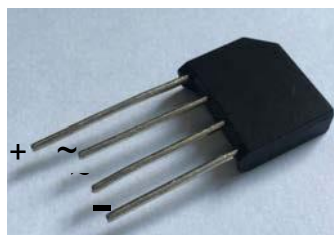


KBL406

Features:

- ☐ High surge current capability
- ☐ Ideal for printed circuit boards
- ☐ Plastic package has Underwriters Laboratory Flammability Classification 94V-0

KBL



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

Parameter	Symbol	KBL 4005	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	Unit
Maximum Reverse Peak Repetitive Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current, @ Ta=50°C	I _(AV)	4.0							A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	120							
Rating for fusing (t < 8.3ms)	I²t	60							A²s
Maximum Reverse Current @ rated V _R T _j = 25°C T _j = 125°C	I _R	10 500							µA
Maximum Forward Voltage @ 4.0 A	V _F	1.1							V
Maximum Thermal Resistance	R _{θJA}	2.6							°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 to +150							°C



Typical Characteristics

Fig. 1 Derating Curve for Output Rectified Current

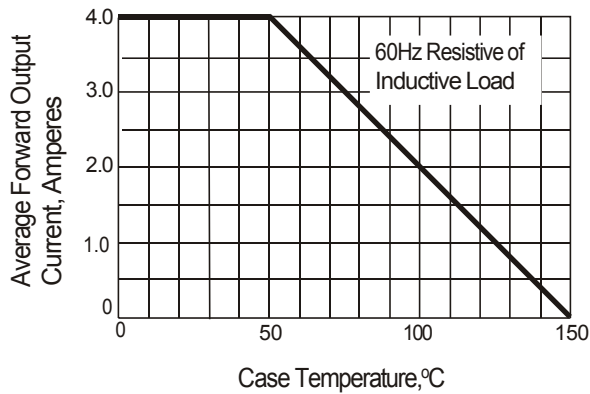


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

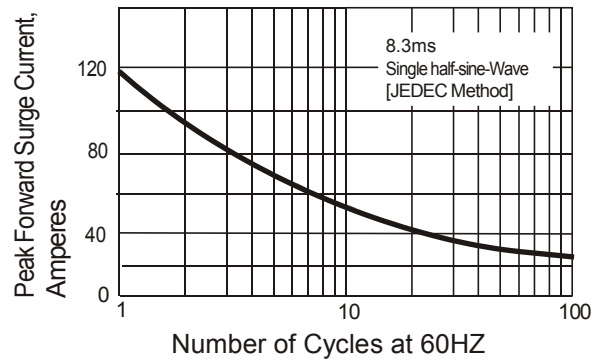


Fig. 3 Typical Instantaneous Forward Characteristics

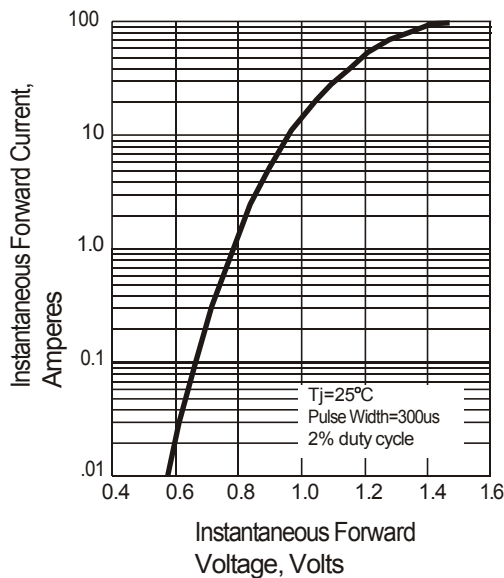


Fig. 4 Typical Reverse Characteristics at Tj=25°C

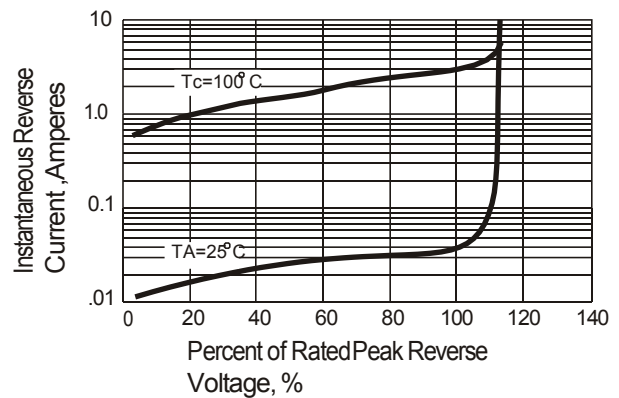
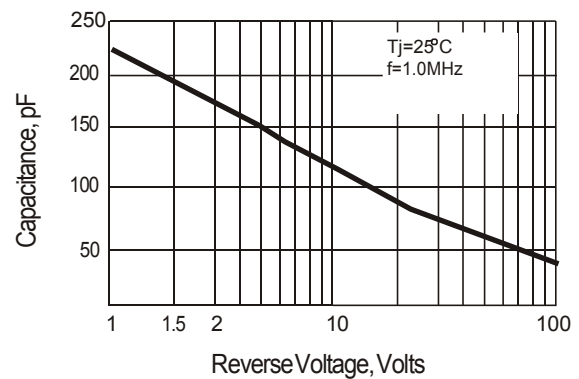


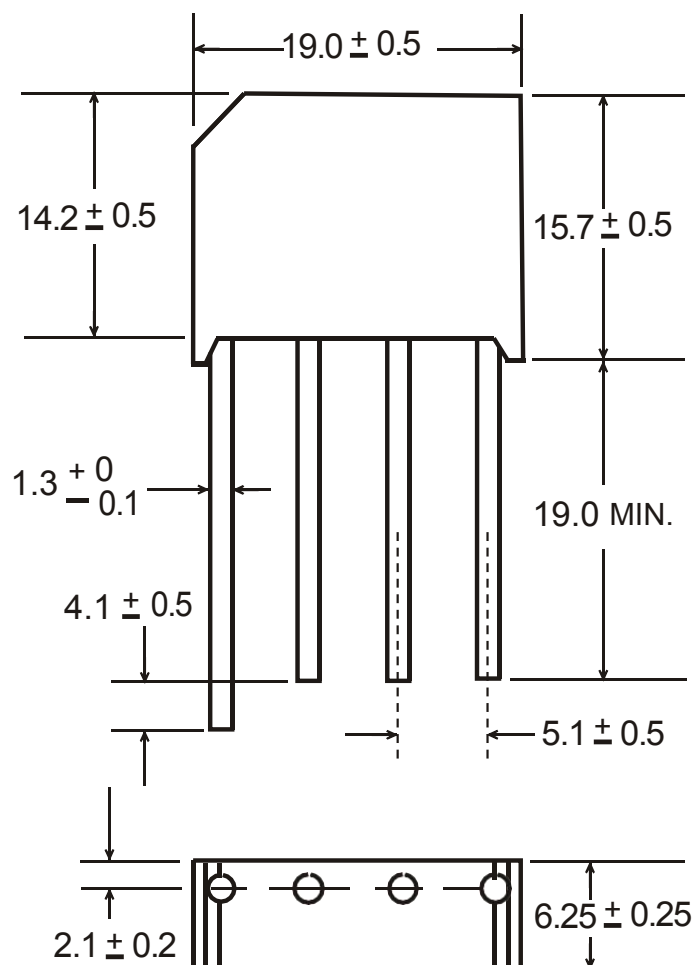
Fig. 5 Typical Junction Capacitance





Package Dimension

KBL



Dimensions in millimeters(1mm =0.0394")



注意事项

1. 深圳市华天微电子有限公司的产品销售分为直销和销售代理，无论哪种方式，订货时请与公司核实。
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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知

NOTE

1. Shenzhen Huatianwei Electronics co., Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Shenzhen Huatianwei Electronics co., Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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