

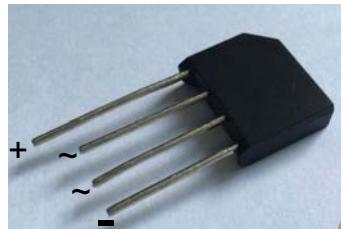


## KBL4005-KBL410

### Features:

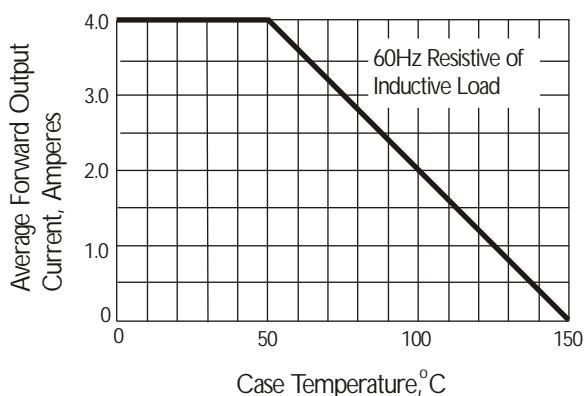
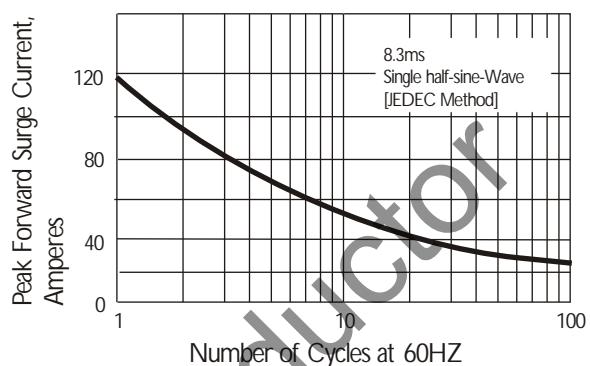
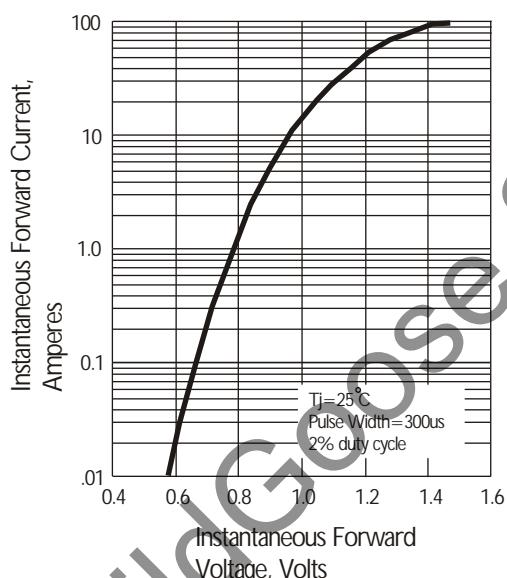
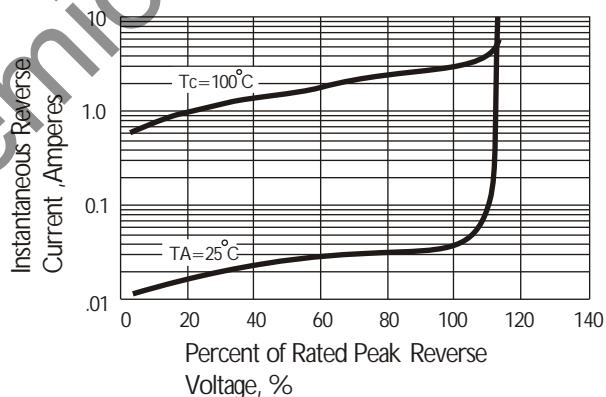
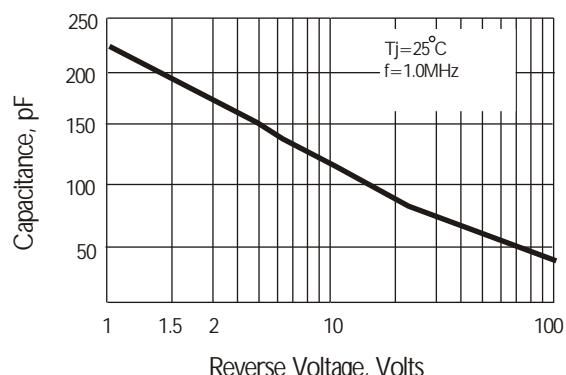
- High surge current capability
- Ideal for printed circuit boards
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

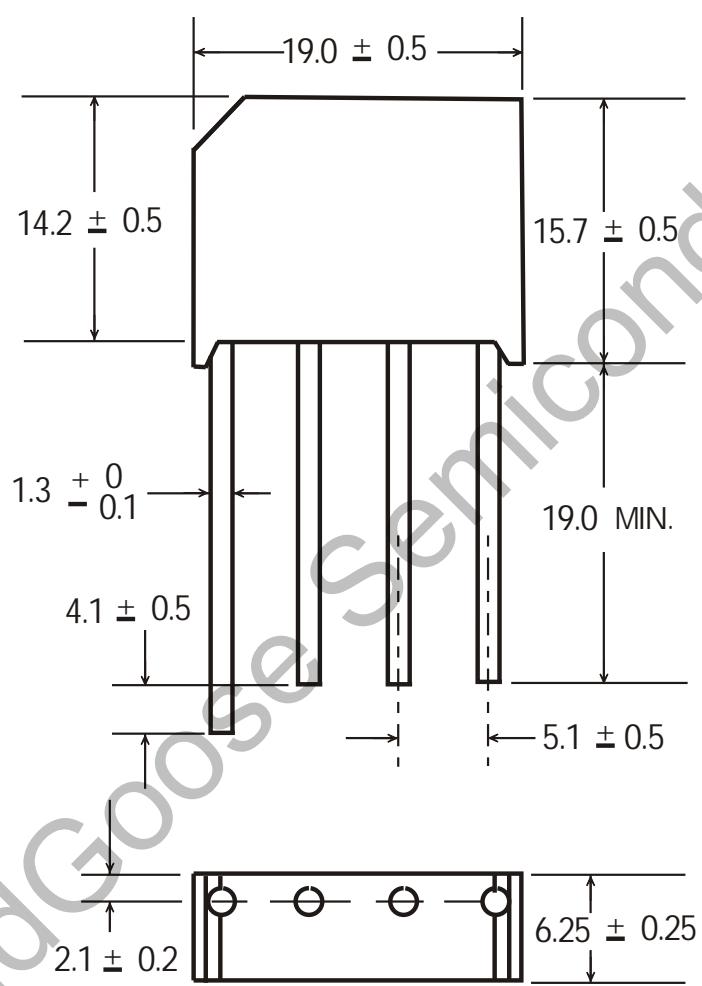
KBL



### Absolute Maximum Ratings ( $T_a=25^\circ\text{C}$ 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, @ $T_a=50^\circ\text{C}$	$I_{(AV)}$	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 ( $t < 8.3\text{ms}$ )	$I^2t$	60							$\text{A}^2\text{s}$
Maximum Reverse Current @ rated $V_R$	$I_R$	10 500							$\mu\text{A}$
Maximum Forward Voltage @ 4.0 A	$V_F$	1.1							V
Maximum Thermal Resistance	$R_{\theta JA}$	2.6							$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 to +150							$^\circ\text{C}$

**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  $T_J=25^\circ\text{C}$** **Fig. 5 Typical Junction Capacitance**

**Package Dimension****KBL**

Dimensions in millimeters(1mm =0.0394" )