

KBL4005CG THRU KBL410CG

4 Amps Single Phase Silicon Bridge

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- ☐ 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 4005CG	KBL 401CG	KBL 402CG	KBL 404CG	KBL 406CG	KBL 408CG	KBL 410CG	Unit
Maximum Reverse Peak Repetitive Voltage	V_{RRM}	50	100	200	400	600	800	1000	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current, @ Ta=50℃	I _(AV)	4.0							
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	120							А
Rating for fusing (t < 8.3ms)	l ² t	60					A^2s		
Maximum Reverse Current @ rated V_R Tj = 25°C Tj = 125°C	I _R	10 500				μΑ			
Maximum Forward Voltage @ 4.0 A	V _F	1.1					V		
Maximum Thermal Resistance	$R_{\theta JA}$	2.6				°C/W			
Operating and Storage Temperature Range	Tj, Tstg	-55 to +150				$^{\circ}$			



Typical Characteristics

Fig. 1 Derating Curve for Output Rectified Current

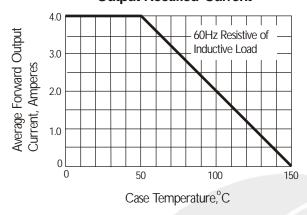


Fig. 3 Typical Instantaneous Forward Characteristics

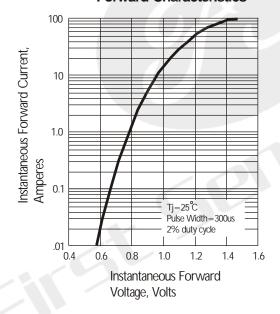


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

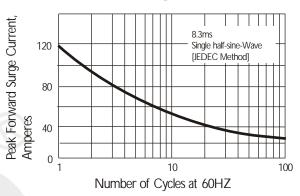


Fig. 4 Typical Reverse Characteristics at Tj=25 C

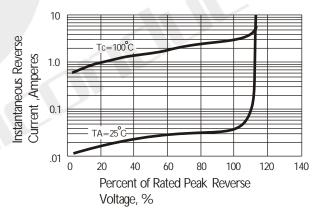
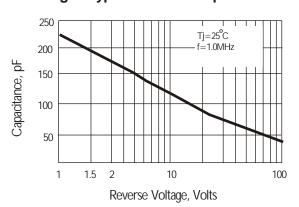


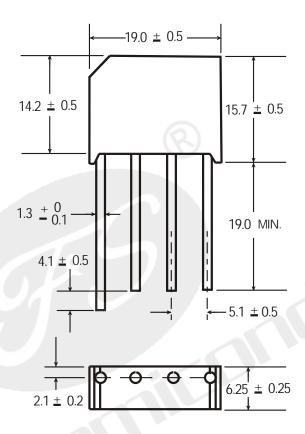
Fig. 5 Typical Junction Capacitance





Package Dimension

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Dimensions in millimeters(1mm = 0.0394")

Declaration

- FIRST reserves the right to change the specifications, the same specifications of products due to different
 packaging line mold, the size of the appearance will be slightly different, shipped in kind, without notice!
 Customers should obtain the latest version information before ordering, and verify whether the relevant
 information is complete and up-to-date.
- Any semiconductor product under certain conditions has the possibility of failure or failure, The buyer has the
 responsibility to comply with safety
 standards and take safety measures when using FIRST products for system design and manufacturing, To
 avoid To avoid potential failure risks, which may cause personal injury or property damage!
- Product promotion endless, our company will wholeheartedly provide customers with better products!

ATTACHMENT

Revision History

Date	REV	Description	Page
2018.01.01	1.0	Initial release	