

KBL400G – KBL410G

4.0A GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

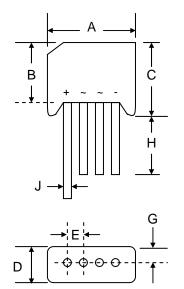


Features

- **Glass Passivated Die Construction**
- Low Forward Voltage Drop
- **High Current Capability**
- **High Reliability**
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: KBL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



KBL					
Dim	Min	Max			
Α	18.50	19.50			
В	13.70	15.70			
С	15.20	16.30			
D	5.50	6.50			
Е	4.60	5.60			
G	_	2.10			
н	19.00	_			
J	1.20 Ø	1.30 Ø			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

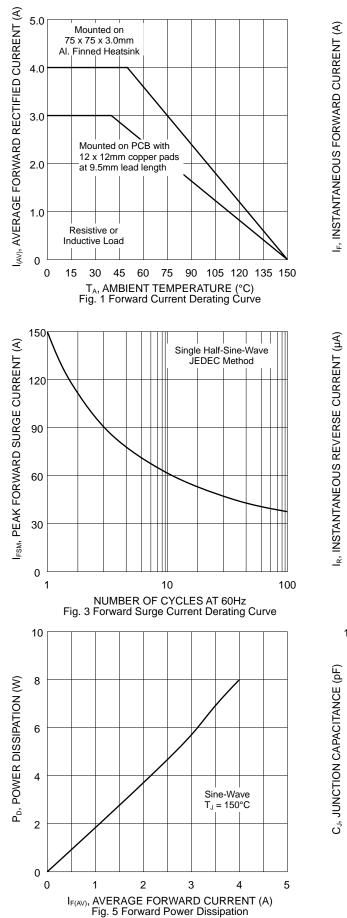
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

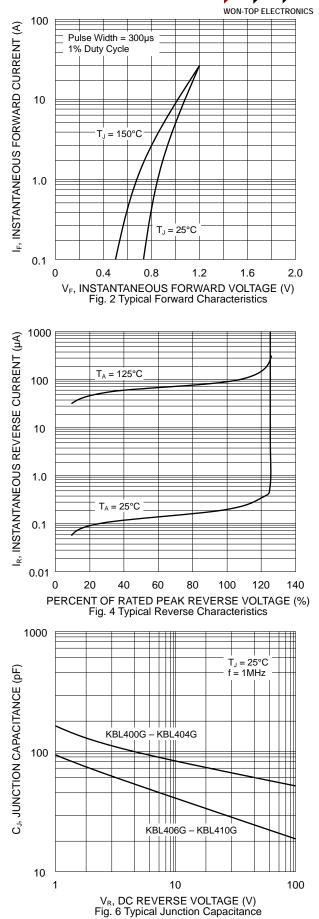
Characteristic	Symbol	KBL 400G	KBL 401G	KBL 402G	KBL 404G	KBL 406G	KBL 408G	KBL 410G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_A = 50^{\circ}C$ (Note 1)	lo				4.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150			A				
Forward Voltage per leg $@I_F = 2.0A$	Vfm				1.1				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Irm				5.0 1000				μA
I ² t Rating for Fusing (t < 8.3ms)	l ² t				93				A ² s
Typical Junction Capacitance (Note 2)	Сл	100 45				pF			
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC	19 2.4					°C/W		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

Note: 1. Mounted on 75 x 75 x 3.0mm thick Al. heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.

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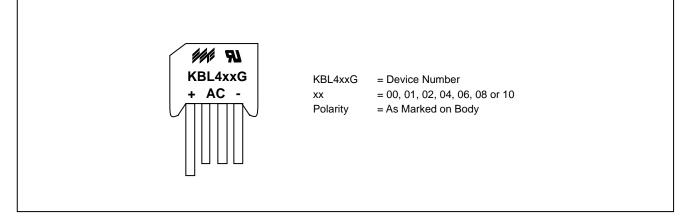


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MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
230 x 230 x 50	500	495 x 245 x 180	3,000	

Note: 1. Paper box, white or brown color.



Product No.	Package Type	Shipping Quantity
KBL400G	SIL Bridge	500 Units/Box
KBL401G	SIL Bridge	500 Units/Box
KBL402G	SIL Bridge	500 Units/Box
KBL404G	SIL Bridge	500 Units/Box
KBL406G	SIL Bridge	500 Units/Box
KBL408G	SIL Bridge	500 Units/Box
KBL410G	SIL Bridge	500 Units/Box

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBL400G-LF.

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