

KBL400G – KBL410G



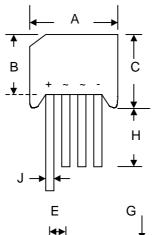
4.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

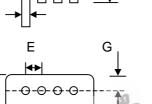
Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- **High Current Capability**
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Plastic Package has UL Flammability 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	14.70			
С	15.20	16.30			
D	6.00	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	1	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 _C = 75°C	lo				4.0				Α
Non-Repetitive Peak Forward Surge 8.3ms Single half sine-wave superin rated load (JEDEC Method)		IFSM				150				А
Forward Voltage per leg	@I _F = 2.0A	VFM				1.1				V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	lR				5.0 1.0				μA mA
Rating for Fusing (t < 8.3ms) (Note	1)	l ² t				166				A ² s
Typical Thermal Resistance per leg (Note 2)		RθJA	19				°C/W			
Typical Thermal Resistance per leg (Note 3)		$R_{ heta}_{JL}$	2.4					°C/W		
Operating and Storage Temperature Range		Tj, TSTG	-65 to +150					°C		

Note: 1. Non-repetitive for t > 1ms and < 8.3ms.

- 2. Mounted on 75 x 75 x 3.0mm Al. plate.
- 3. Mounted on PCB at 9.5mm lead length with 12mm² copper pad.

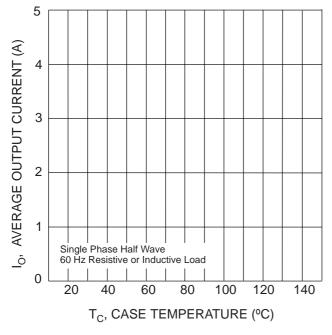
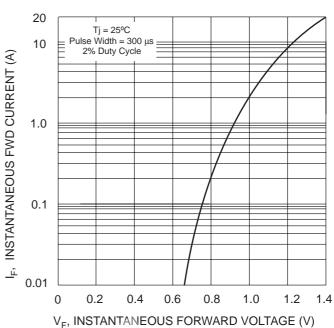


Fig. 1 Forward Current Derating Curve



 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics, per element

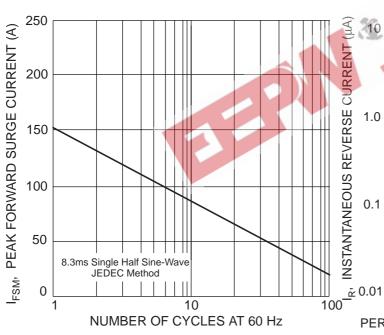


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

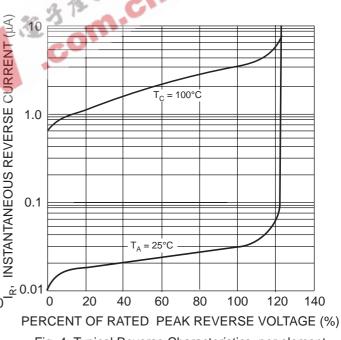
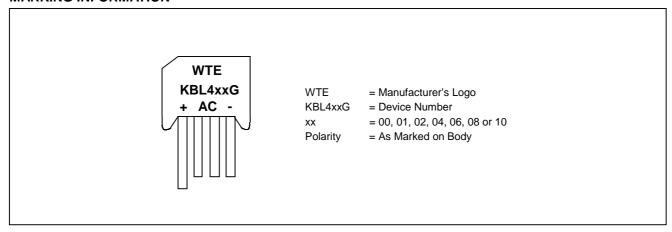


Fig. 4 Typical Reverse Characteristics, per element

MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
230 x 230 x 50	500	495 x 245 x 180	3,000	19.5

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

ORDERING INFORMATION

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		

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBL400G-LF.



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