



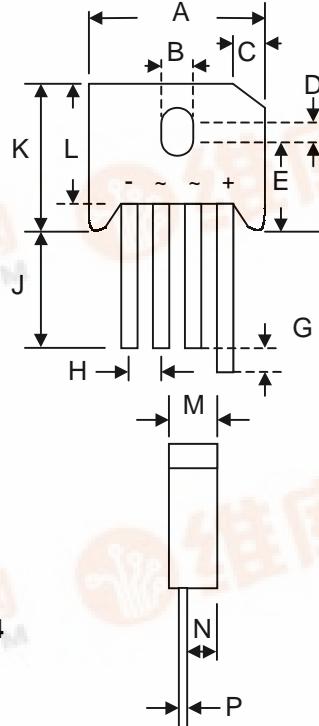
# KBU400G – KBU410G



## 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
- Recognized File # E157705



KBU		
Dim	Min	Max
A	22.70	23.70
B	3.60	4.10
C	4.20	4.70
D	1.70	2.20
E	10.30	11.30
G	4.50	5.60
H	4.60	5.60
J	25.40	—
K	—	19.30
L	16.80	17.80
M	6.60	7.10
N	4.10	4.60
P	1.20	1.30
All Dimensions in mm		

### Mechanical Data

- Case: KBU, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 8.0 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 10 cm-kg (8.8 in-lbs) Max.
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**

### Maximum Ratings and Electrical Characteristics $\text{@ } T_A = 25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	KBU 400G	KBU 401G	KBU 402G	KBU 404G	KBU 406G	KBU 408G	KBU 410G	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>								
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>								
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current $\text{@ } T_C = 100^\circ\text{C}$ (Note 1)	I <sub>o</sub>				4.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>				200				A
Forward Voltage per leg $\text{@ } I_F = 2.0\text{A}$	V <sub>FM</sub>				1.0				V
Peak Reverse Current $\text{@ } T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage $\text{@ } T_A = 125^\circ\text{C}$	I <sub>R</sub>				5.0				$\mu\text{A}$ mA
Typical Thermal Resistance per leg (Note 2)	R <sub>θJA</sub>				19				°C/W
Typical Thermal Resistance per leg (Note 1)	R <sub>θJL</sub>				4.0				°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>TSG</sub>				-65 to +150				°C

Note: 1. Mounted on 50 x 40 x 8.0mm Al. plate.

2. Mounted on PCB at 9.5mm lead length with 12mm<sup>2</sup> copper pad.

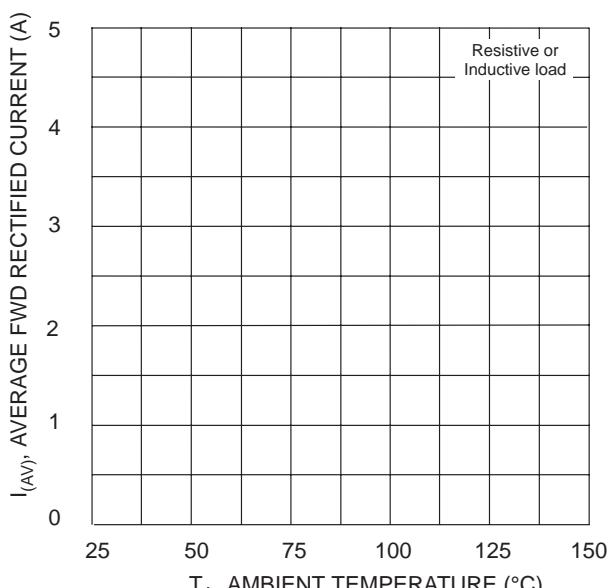


Fig. 1 Forward Current Derating Curve

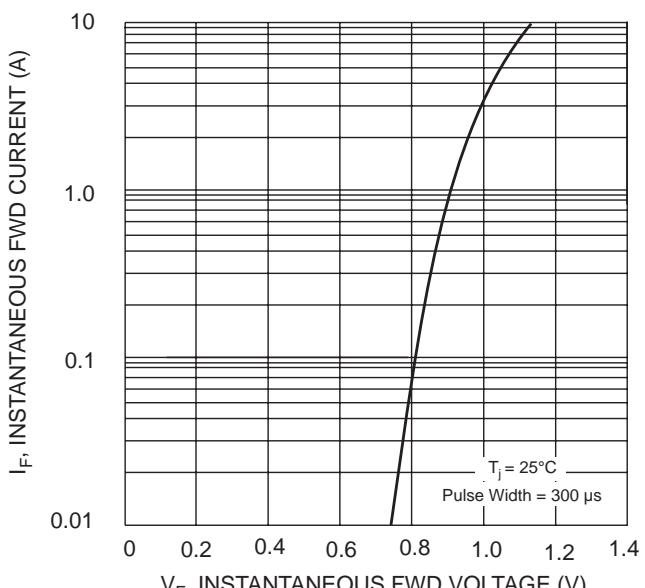


Fig. 2 Typical Forward Characteristics, per element

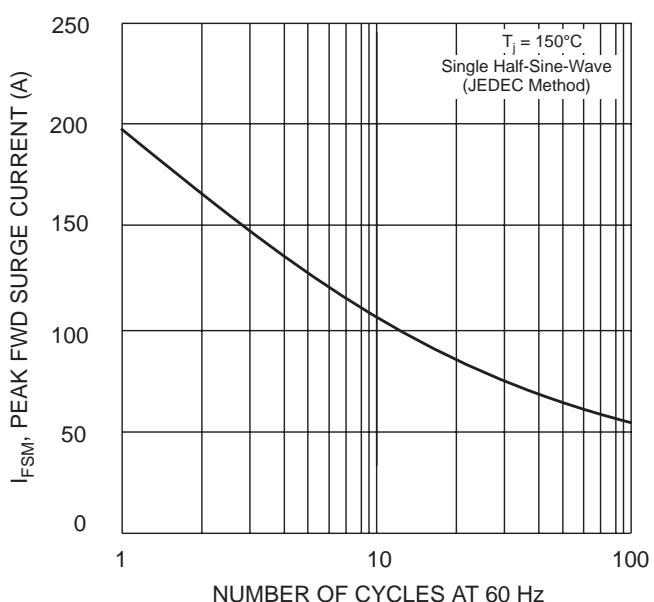


Fig. 3 Max Non-Repetitive Surge Current

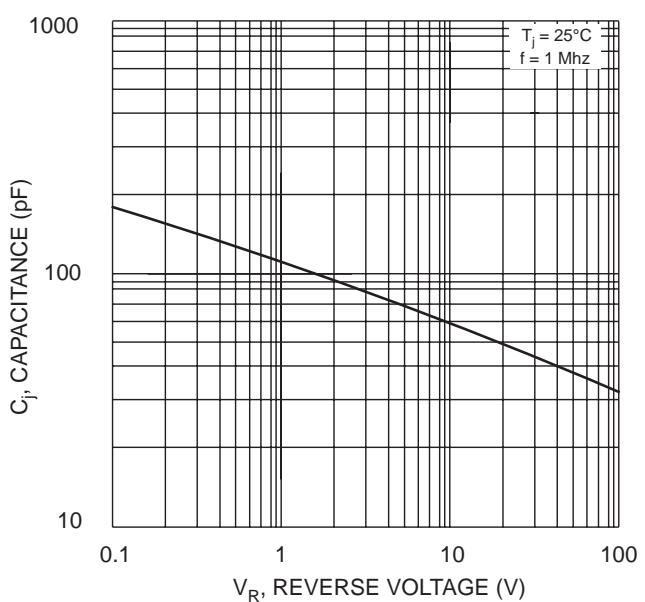


Fig. 4 Typical Junction Capacitance

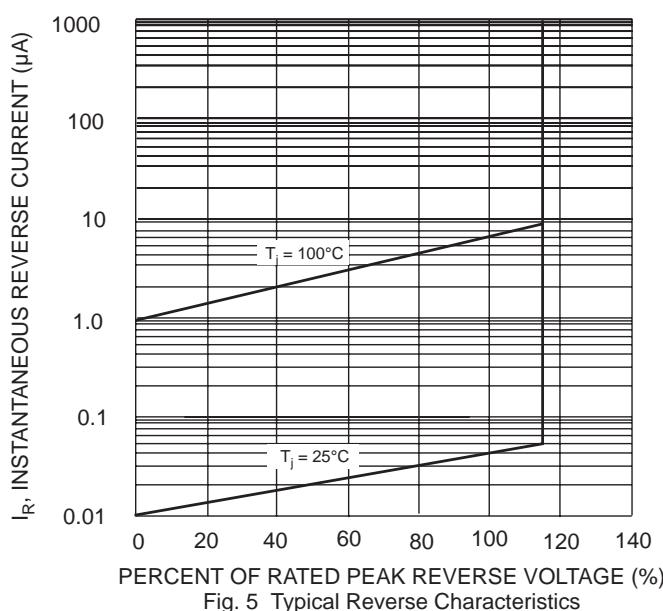
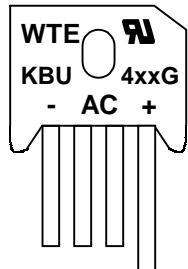


Fig. 5 Typical Reverse Characteristics

## MARKING INFORMATION



WTE = Manufacturer's Logo  
KBU4xxG = Device Number  
xx = 00, 01, 02, 04, 06, 08 or 10  
Polarity = As Marked on Body

## 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)
268 x 227 x 51	400	463 x 283 x 185	2,400	20.5

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

## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBU400G	SIL Bridge	400 Units/Box
KBU401G	SIL Bridge	400 Units/Box
KBU402G	SIL Bridge	400 Units/Box
KBU404G	SIL Bridge	400 Units/Box
KBU406G	SIL Bridge	400 Units/Box
KBU408G	SIL Bridge	400 Units/Box
KBU410G	SIL Bridge	400 Units/Box

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add “-LF” suffix to part number above. For example, KBU400G-LF.**

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**Won-Top Electronics Co., Ltd.**

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

**Fax:** 886-7-822-5417

**Email:** sales@wontop.com

**Internet:** <http://www.wontop.com>

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