

KBU400 – KBU410 🏠 💫

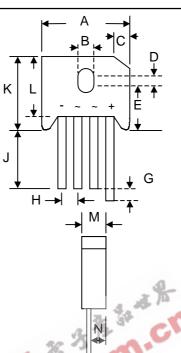
# 4.0A SINGLE-PHASE BRIDGE RECTIFIER

## **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705

### **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



KBU				
Dim	Min	Max		
Α	22.70	23.70		
В	3.60	4.10		
С	4.20	4.70		
D	1.70	2.20		
Е	10.30	11.30		
G	4.50	5.60		
Н	4.60	5.60		
J	25.40	_		
κ	—	19.30		
L	16.80	17.80		
М	6.60	7.10		
Ν	4.10	4.60		
Р	1.20	1.30		
All Dimensions in mm				

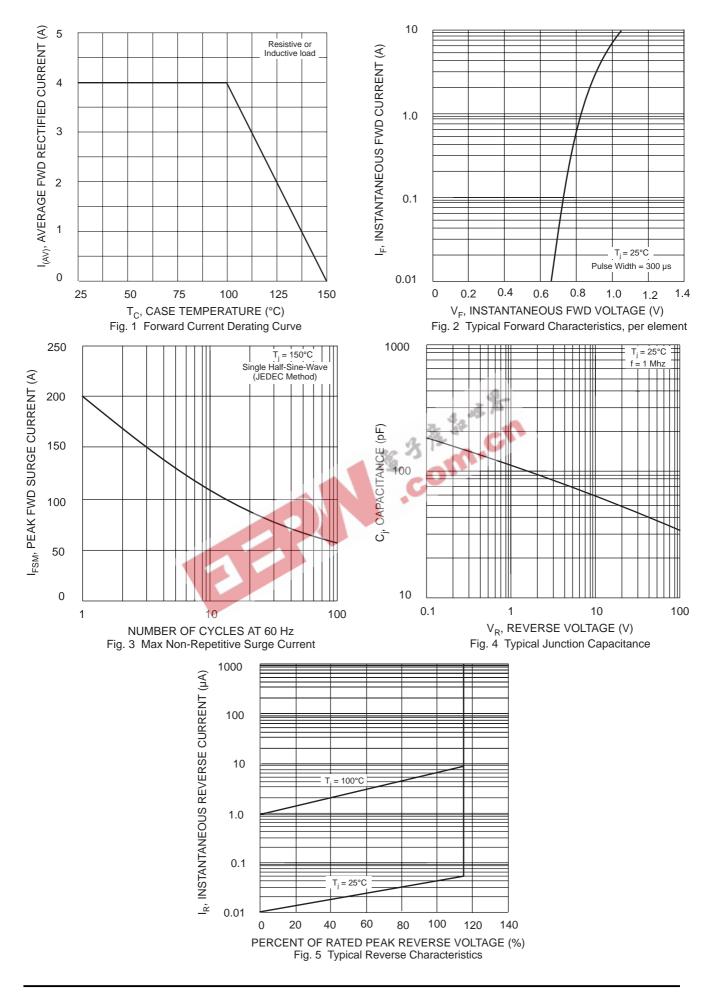
# Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

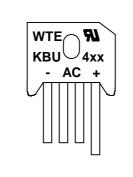
Characteristic	Symbol	KBU 400	KBU 401	KBU 402	KBU 404	KBU 406	KBU 408	KBU 410	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	Vr(rms)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_c = 10$ (Note 1)	o°C lo				4.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				200				A
Forward Voltage per leg $@I_F = 2$ .	0A Vfm				1.0				V
Peak Reverse Current $@T_A = 2$ At Rated DC Blocking Voltage $@T_A = 12$	IR				5.0 1.0				μA mA
Typical Thermal Resistance per leg (Note 2)	RθJA	19					°C/W		
Typical Thermal Resistance per leg (Note 1)	R∂JL	4.0				°C/W			
Operating and Storage Temperature Range	Тј, Тѕтс	-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.



# MARKING INFORMATION



= Manufacturer's Logo = Device Number = 00, 01, 02, 04, 06, 08 or 10 = 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.					

WTE

xx Polarity

KBU4xx

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

## **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBU400	SIL Bridge	400 Units/Box
KBU401	SIL Bridge	400 Units/Box
KBU402	SIL Bridge	400 Units/Box
KBU404	SIL Bridge	400 Units/Box
KBU406	SIL Bridge	400 Units/Box
KBU408	SIL Bridge	400 Units/Box
KBU410	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, KBU400-LF.



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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

We power your everyday.