

# **KBU600G – KBU610G**



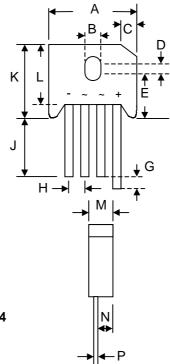
#### 6.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

#### **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

### **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		
E	10.30	11.30		
G	4.50	5.60		
Н	4.60	5.60		
J	25.40	_		
K	_	19.30		
L	16.80	17.80		
М	6.60	7.10		
N	4.10	4.60		
Р	1.20	1.30		
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	KBU 600G	KBU 601G	KBU 602G	KBU 604G	KBU 606G	KBU 608G	KBU 610G	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 <sub>C</sub> = 100°C (Note 1)	lo				6.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				250				А
Forward Voltage per leg @I <sub>F</sub> = 3.0A	VFM	1.0			V				
	IR	5.0 1.0			μA mA				
Typical Thermal Resistance per leg (Note 2)	R heta JA	8.6				°C/W			
Typical Thermal Resistance per leg (Note 1)	R <sub>θ</sub> JC	3.1					°C/W		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150				°C			

Note: 1. Mounted on 65 x 35 x 1.5mm Al. plate.

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

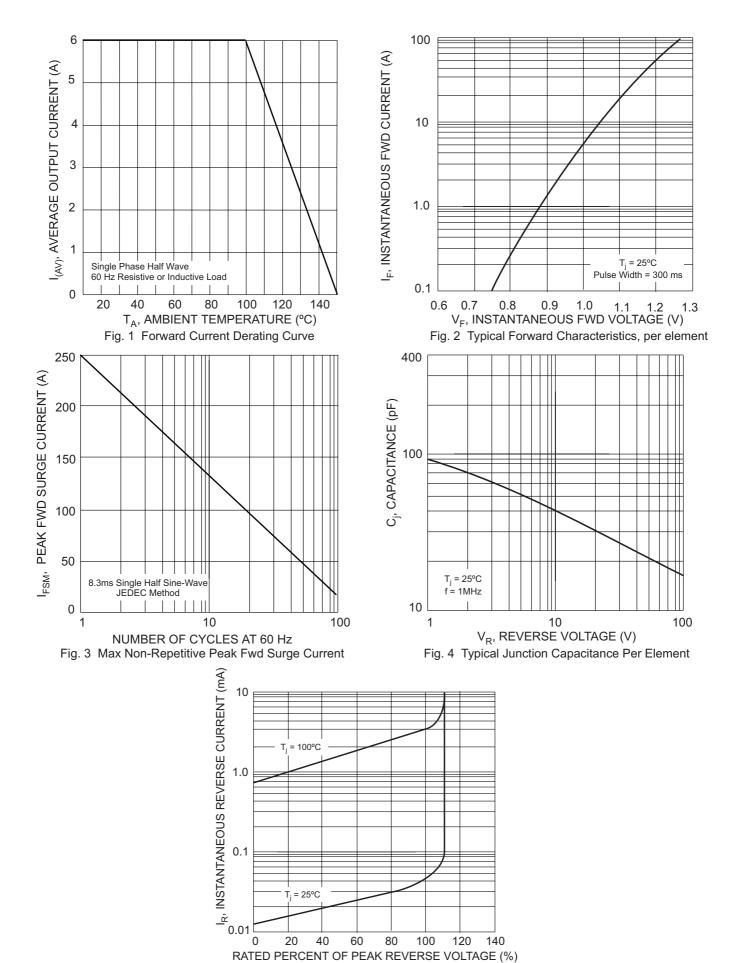
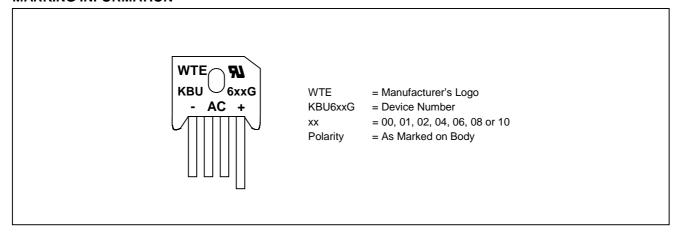


Fig. 5 Typical Reverse Characteristics

# **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)
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
KBU600G	SIL Bridge	400 Units/Box
KBU601G	SIL Bridge	400 Units/Box
KBU602G	SIL Bridge	400 Units/Box
KBU604G	SIL Bridge	400 Units/Box
KBU606G	SIL Bridge	400 Units/Box
KBU608G	SIL Bridge	400 Units/Box
KBU610G	SIL Bridge	400 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, KBU600G-LF.

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**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

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