



6.0A 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

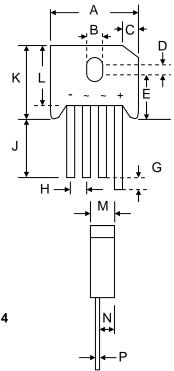
Polarity: As Marked on Body

Weight: 8.0 grams (approx.)

Mounting Position: Any

Mounting Torque: 0.8 N.m 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	_			
K	_	19.80			
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%.

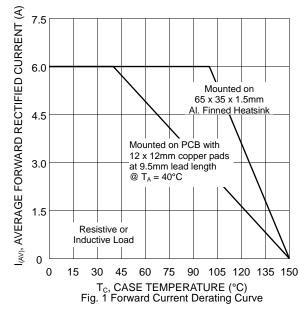
Characteristic	Symbol	KBU 600	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 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				175				А
Forward Voltage per leg $@I_F = 3.0A$	VFM	1.0				V			
	lгм				5.0 1.0				μA mA
I ² t Rating for Fusing (t < 8.3ms)	l ² t				127				A ² s
Typical Junction Capacitance (Note 2)	Ci		2	11			94		pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC				18.6 3.1				°C/W
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	1500				•	V		
Operating and Storage Temperature Range	TJ, TSTG			-:	55 to +15	0			°C

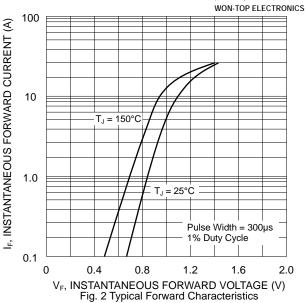
Note: 1. Mounted on 65 x 35 x 1.5mm thick Al. heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.

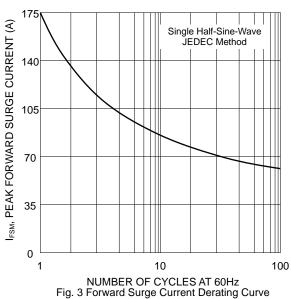
© Won-Top Electronics Co., Ltd. Revision: September, 2012

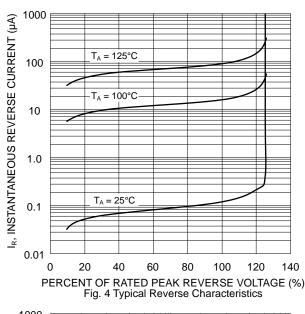
KBU600 - KBU610

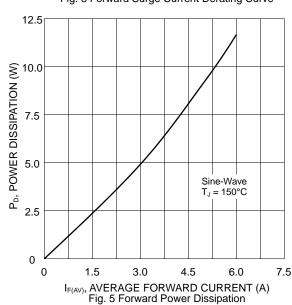


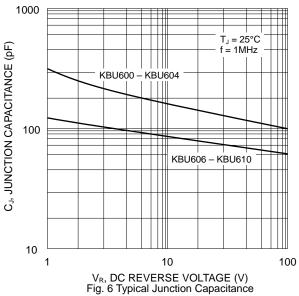






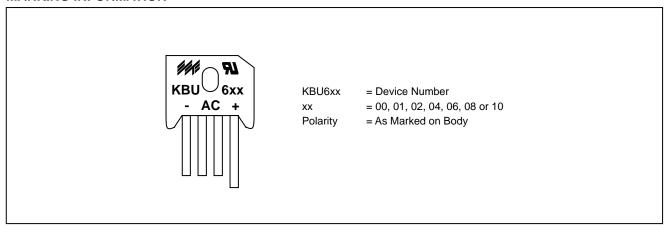








MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
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
KBU600	SIL Bridge	400 Units/Box
KBU601	SIL Bridge	400 Units/Box
KBU602	SIL Bridge	400 Units/Box
KBU604	SIL Bridge	400 Units/Box
KBU606	SIL Bridge	400 Units/Box
KBU608	SIL Bridge	400 Units/Box
KBU610	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 RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBU600-LF.

WON-TOP ELECTRONICS and are registered trademarks of Won-Top Electronics Co., Ltd (WTE). 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 806, 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.