

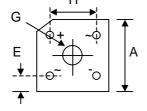
# KBPC600G - KBPC610G

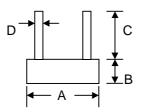


#### 6.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

## **Features**

- Glass Passivated Die Construction
- High Current Capability
- High Case Dielectric Strength
- High Surge Current Capability
- Ideal for Printed Circuit Board Application
- Plastic Material has UL Flammability 94V-0
- Recognized File # E157705





KBPC-6					
Dim	Min Max				
Α	14.73 15.75				
В	5.80 6.90				
С	19.00 —				
D	1.00 Ø Typical				
Е	1.70 2.72				
G	Hole for #6 screw				
G	3.60	4.00			
Н	10.30	11.30			
All Dimensions in mm					

# **Mechanical Data**

• Case: KBPC-6, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Marked on Body

Weight: 3.8 grams (approx.)

Mounting Position: Through Hole for #6 Screw
Mounting Torque: 10 cm-kg (8.8 in-lbs) Max.

Marking: Type Number

Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

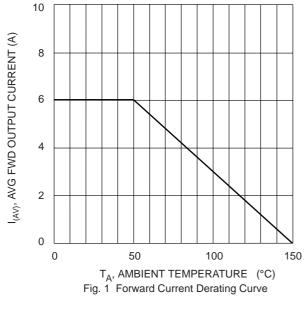
## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

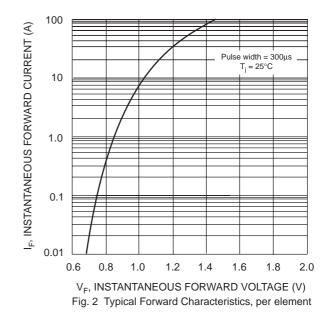
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

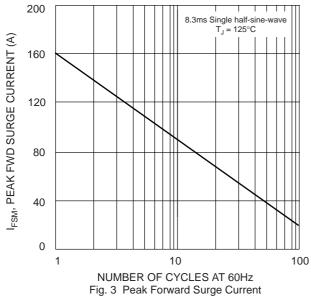
Characteristic		Symbol	KBPC 600G	KBPC 601G	KBPC 602G	KBPC 604G	KBPC 606G	KBPC 608G	KBPC 610G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	200	400	600	800	1000	<b>V</b>
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 50°C		lo	6.0						Α	
Non-Repetitive Peak Forward Surge C Single half sine-wave superimposed o (JEDEC Method)		Ігѕм				160				А
Forward Voltage per leg	@I <sub>F</sub> = 3.0A	VFM				1.0				V
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 125°C	lR				5.0 500				μΑ
I <sup>2</sup> t Rating for Fusing (t<8.3ms) (Note 2	)	l <sup>2</sup> t				127				A <sup>2</sup> s
Typical Junction Capacitance (Note 3)		Cj	186 90				pF			
Typical Thermal Resistance per leg (Note 1)		R <sub>θ</sub> JC	7.3				°C/W			
Operating and Storage Temperature Range		Тј, Тѕтс	-65 to +150					°C		

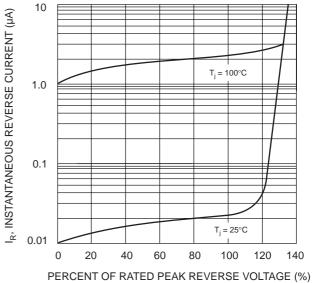
Note: 1. Mounted on 140 x 150 x 3.0mm Al. plate.

- 2. Non-repetitive, for t > 1ms and < 8.3ms.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

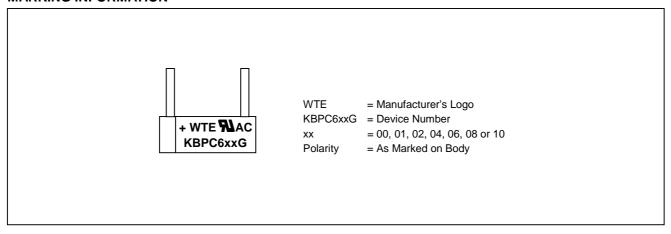








## **MARKING INFORMATION**



## **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)
198 x 198 x 50	200	425 x 215 x 280	2,000	8.0

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

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity		
11000011101	r dollage Type	omponing quantity		
KBPC600G	Square Bridge	200 Units/Box		
KBPC601G	Square Bridge	200 Units/Box		
KBPC602G	Square Bridge	200 Units/Box		
KBPC604G	Square Bridge	200 Units/Box		
KBPC606G	Square Bridge	200 Units/Box		
KBPC608G	Square Bridge	200 Units/Box		
KBPC610G	Square Bridge	200 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, KBPC600G-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.