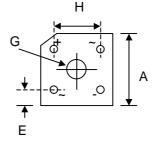


KBPC600G - KBPC610G

6.0A GLASS PASSIVATED 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 Underwriters Laboratory Flammability Classification 94V-O



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: Molded Plastic

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

Polarity: Marked on BodyWeight: 3.8 grams (approx.)

Mounting Position: Through Hole for #6 Screw
Mounting Torque: 5.0 Inch-pounds Maximum

Marking: Type Number

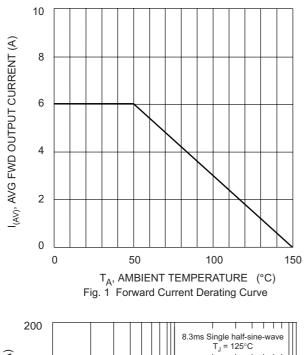
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

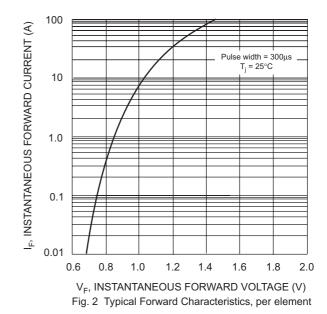
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

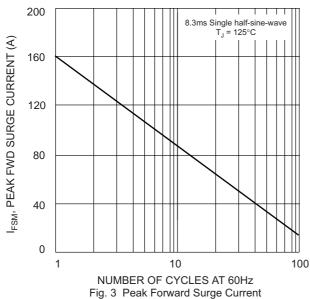
Characteristic	Symbol	KBPC 600G	KPBC 601G	KBPC 602G	KBPC 604G	KBPC 606G	KBPC 608G	KBPC 610G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	>
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 50°	C Io	6.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	160					А		
Forward Voltage (per element) @I _F = 3.0A	VFM				1.0				V
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	I ID				5.0 500				μΑ
I ² t Rating for Fusing (t<8.3ms) (Note 2)	l ² t	127						A ² s	
Typical Junction Capacitance (Note 3)	Cj	186					pF		
Typical Thermal Resistance (Note 4)	RθJC	8.0						K/W	
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150						°C	

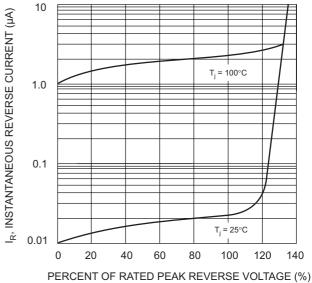
Note: 1. Mounted on 5.5" x 6.0" x 0.11" thick Al. plate.

- 2. Non-repetitive, for t > 1ms and < 8.3ms.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 4. Thermal resistance junction to case per element.









ORDERING INFORMATION

Product No.	Package Type	Shipping 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.

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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

