

# **KBPC800G – KBPC810G**

## 8.0A GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

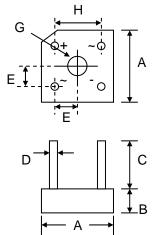


## **Features**

- **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

### **Mechanical Data**

- Case: KBPC-8, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Weight: 5.4 grams (approx.)
- Mounting Position: Through Hole for #6 Screw
- Mounting Torque: 0.8 N.m Max.
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



KBPC-8					
Dim	Min	Max			
Α	18.54	19.56			
в	6.35 7.60				
С	15.00	_			
D	1.27 Ø Typical				
E	5.33	7.37			
G	Hole for #6 screw				
G	3.60	4.00			
Н	12.20	13.20			
All Dimensions in mm					

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

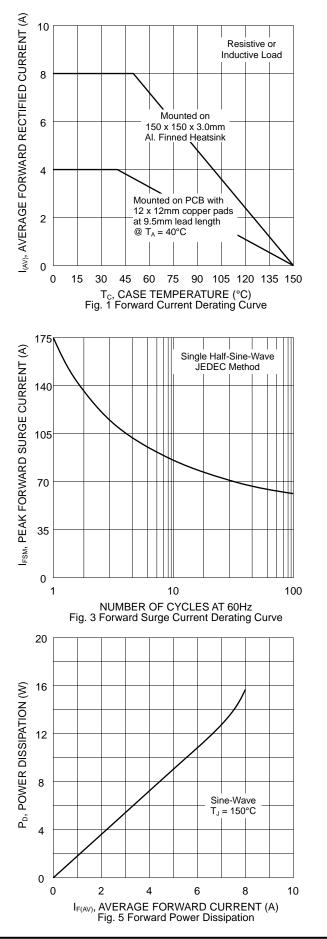
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

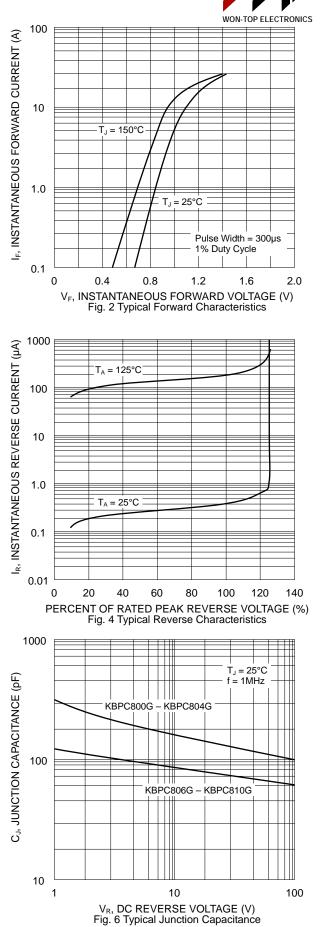
Characteristic	Symbol	KBPC 800G	KBPC 801G	KBPC 802G	KBPC 804G	KBPC 806G	KBPC 808G	KBPC 810G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_c = 50^{\circ}C$ Average Rectified Output Current (Note 2) $@T_A = 40^{\circ}C$	lo				8.0 4.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				175				A
Forward Voltage per leg $@I_F = 4.0A$	Vfm				1.1				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Irm				5.0 500				μA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t				166				A <sup>2</sup> s
Typical Junction Capacitance (Note 3)	Сл		2	11			94		pF
Thermal Resistance Junction to Ambient (Note 2) Thermal Resistance Junction to Case (Note 1)	R JA R JC	22 6.5					°C/W		
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	1500					V		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

Note: 1. Mounted on 150 x 150 x 3.0mm thick Al. heatsink.

Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.
Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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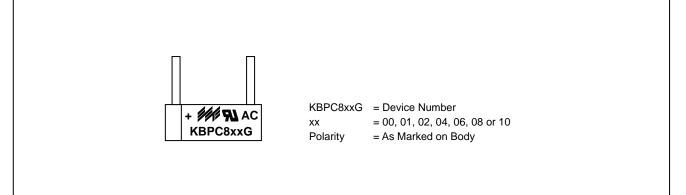


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### MARKING INFORMATION



## 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)
237 x 240 x 52	200	500 x 255 x 275	2,000	

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



Product No.	Package Type	Shipping Quantity
KBPC800G	Square Bridge	200 Units/Box
KBPC801G	Square Bridge	200 Units/Box
KBPC802G	Square Bridge	200 Units/Box
KBPC804G	Square Bridge	200 Units/Box
KBPC806G	Square Bridge	200 Units/Box
KBPC808G	Square Bridge	200 Units/Box
KBPC810G	Square Bridge	200 Units/Box

#### **ORDERING INFORMATION**

1. 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, KBPC800G-LF.

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