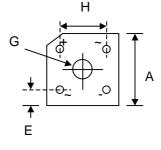


KBPC300G - KBPC310G

3.0A 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-3						
Dim	Min	Max				
Α	14.73 15.75					
В	5.84	6.86				
С	19.00	9.00 —				
D	0.70 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 Body
Weight 2.0 graphs (approximately)

Weight: 3.8 grams (approx.)

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

Marking: Type Number

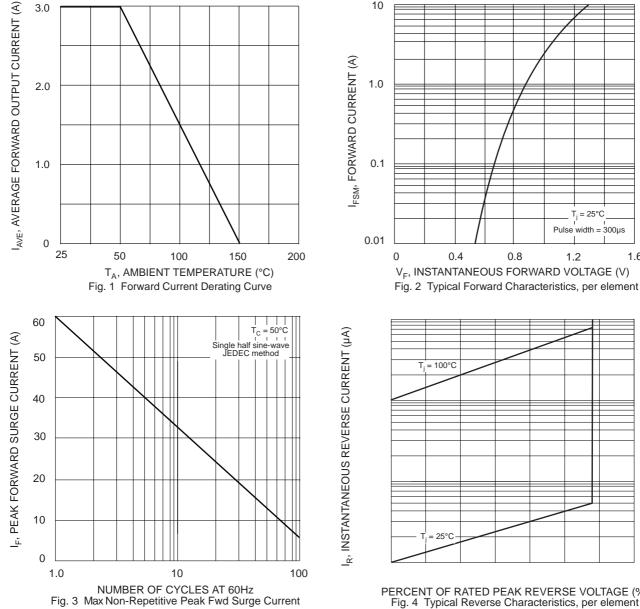
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic		Symbol	KBPC 300G	KPBC 301G	KBPC 302G	KBPC 304G	KBPC 306G	KBPC 308G	KBPC 310G	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 _A = 50°C		lo	3.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	60					А		
Forward Voltage (per element) @I _F	= 1.5A	VFM				1.0				V
S S	= 25°C 125°C	lr				5.0 500				μΑ
I ² t Rating for Fusing (t<8.3ms) (Note 2)		l ² t	15					A ² s		
Typical Junction Capacitance (Note 3)		Cj	21					pF		
Typical Thermal Resistance (Note 4)		R_{θ} JC	8.0					K/W		
Operating and Storage Temperature Range		Тj, Tsтg	-55 to +150					°C		

Note: 1. Mounted on 4.0" x 4.0" 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.



10

3.0

PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 4 Typical Reverse Characteristics, per element

0.8

Pulse width = 300µs

1.6

1.2

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity				
KBPC300G	Square Bridge	200 Units/Box				
KBPC301G	Square Bridge	200 Units/Box				
KBPC302G	Square Bridge	200 Units/Box				
KBPC304G	Square Bridge	200 Units/Box				
KBPC306G	Square Bridge	200 Units/Box				
KBPC308G	Square Bridge	200 Units/Box				
KBPC310G	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.

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