

KBPC600 – KBPC610

6.0A SINGLE PHASE BRIDGE RECTIFIER

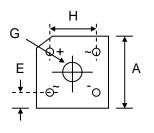


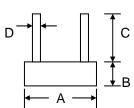
Features

- **Diffused Junction**
- **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-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: 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-6					
Dim	Min	Max			
Α	14.70	15.75			
в	5.80 6.90				
С	15.00				
D	1.00 Ø Typical				
ш	1.70	2.72			
G	Hole for #6 screw				
9	3.60 Ø	4.00 Ø			
Н	10.30 11.30				
All Dimensions in mm					

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

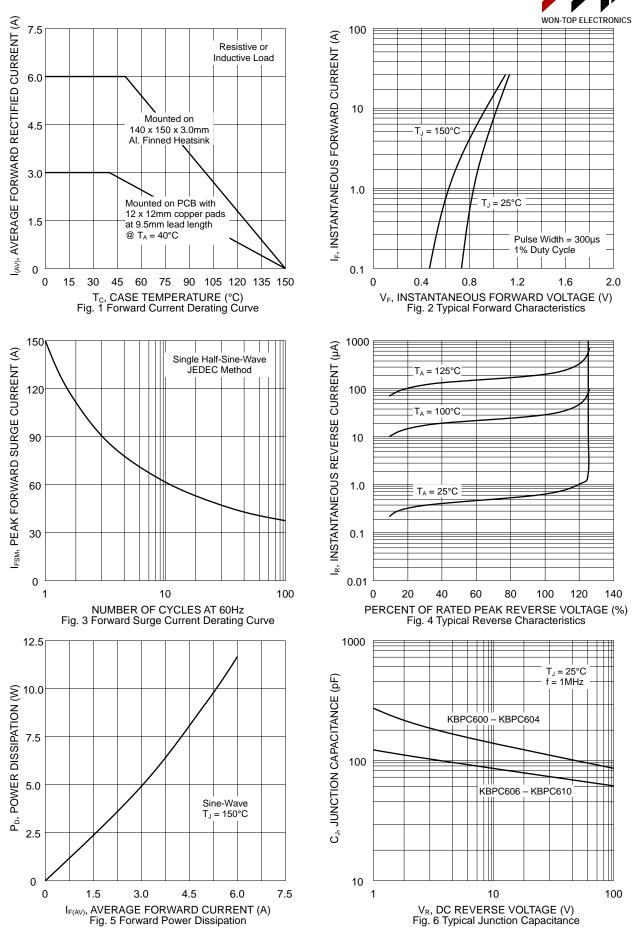
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC 600	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 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 (Note 1) $@T_c = 50^{\circ}C$ Average Rectified Output Current (Note 2) $@T_A = 40^{\circ}C$	lo				6.0 3.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				150				A
Forward Voltage per leg $@I_F = 3.0A$	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 ² t Rating for Fusing (t < 8.3ms)	l ² t				127				A ² s
Typical Junction Capacitance (Note 3)	Сл		18	36			90		pF
Thermal Resistance Junction to Ambient (Note 2) Thermal Resistance Junction to Case (Note 1)	R JA R JC	22 7.3				°C/W			
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	1500					V		
Operating and Storage Temperature Range	TJ, TSTG			-{	55 to +15	50			°C

Note: 1. Mounted on 140 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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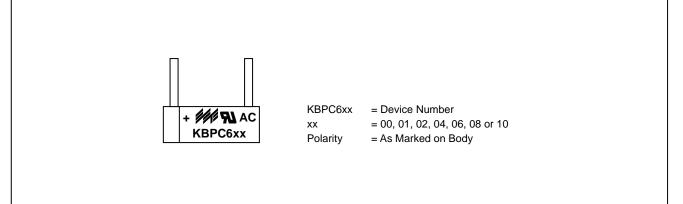
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MARKING INFORMATION



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)
198 x 198 x 50	200	425 x 215 x 280	2,000	

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



Product No.	Package Type	Shipping Quantity
KBPC600	Square Bridge	200 Units/Box
KBPC601	Square Bridge	200 Units/Box
KBPC602	Square Bridge	200 Units/Box
KBPC604	Square Bridge	200 Units/Box
KBPC606	Square Bridge	200 Units/Box
KBPC608	Square Bridge	200 Units/Box
KBPC610	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, KBPC600-LF.

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Won-Top Electronics Co., Ltd.

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