

KBPC300 – KBPC310

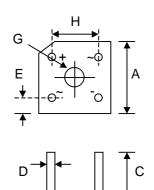
3.0A SINGLE-PHASE BRIDGE RECTIFIER

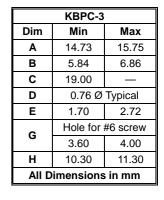
Features

- 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-3, 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

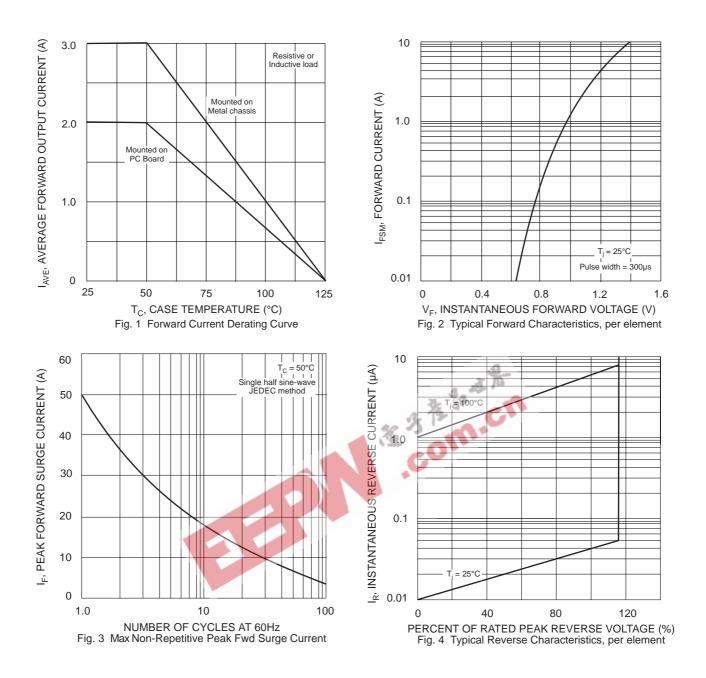
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC 300	KBPC 301	KBPC 302	KBPC 304	KBPC 306	KBPC 308	KBPC 310	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) $@T_c = 50^{\circ}C$	lo				3.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм				50				A
Forward Voltage per leg $@I_F = 1.5A$	Vfm				1.1				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IR				5.0 500				μA
I ² t Rating for Fusing (t<8.3ms) (Note 2)	l ² t				10				A ² s
Typical Junction Capacitance (Note 3)	Cj				25				pF
Typical Thermal Resistance per leg (Note 1)	R				10				°C/W
Operating and Storage Temperature Range	Тj, Tsтg			-6	65 to +12	25			°C

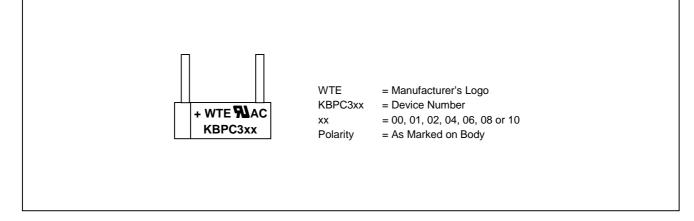
Note: 1. Mounted on metal chassis.

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.							

Product No.	Package Type	Shipping Quantity
KBPC300	Square Bridge	200 Units/Box
KBPC301	Square Bridge	200 Units/Box
KBPC302	Square Bridge	200 Units/Box
KBPC304	Square Bridge	200 Units/Box
KBPC306	Square Bridge	200 Units/Box
KBPC308	Square Bridge	200 Units/Box
KBPC310	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.

2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBPC300-LF.



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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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