

KBPC10P SERIES RoHS PO

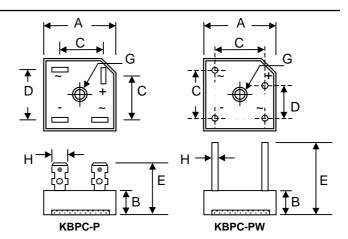
10A SINGLE-PHASE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Epoxy Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V
- Recognized File # E157705

Mechanical Data

- Case: Molded Plastic with Heatsink, Available in Both Low Profile and Standard Case
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm-kg (20 in-lbs) Max.
- Weight: 21 grams (KBPC-P); 18 grams (KBPC-PW)
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



		PC-P e / Standard	KBPC-PW Low Profile / Standard			
Dim	Min	Max	Min	Max		
Α	28.40	28.70	28.40	28.70		
В	7.50 / 10.97	8.50 / 11.23	7.50 / 10.97	8.50 / 11.23		
С	15.70	16.70	17.10	19.10		
D	17.50	18.50	10.90	11.90		
E	22.50 / 22.86	23.50 / 25.40	30.50	_		
G	Hole for #10 screw, 5.08Ø Nominal					
Н	6.35 T	Typical	0.97Ø	1.07Ø		
All Dimension in mm						

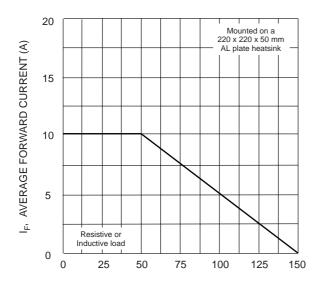
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

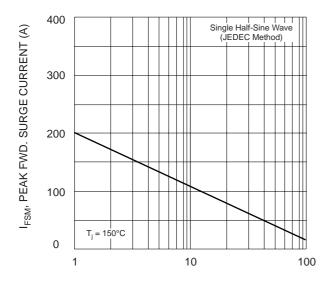
Characteristic	Sumbol KBPC10								Unit			
Characteristic	Symbol	00P	01P	02P	04P	06P	08P	10P	12P	14P	16P	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current @T _A = 50°C	lo	10							Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200							А			
Forward Voltage per leg @I _F = 5.0A	VFM	1.1					V					
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	lкм	10 500				μΑ						
I ² t Rating for Fusing (t < 8.3ms)	l ² t	166							A ² s			
Typical Junction Capacitance (Note 1)	Cj	200							pF			
Typical Thermal Resistance per leg (Note 2)	R _θ JC	3.0							°C/W			
RMS Isolation Voltage from Case to Leads	Viso	2500							V			
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150						°C				

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

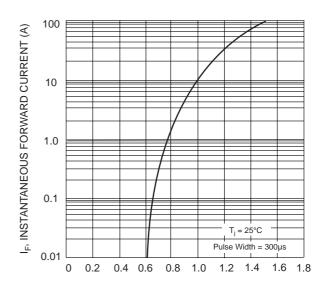
2. Thermal resistance junction to case, mounted on heatsink.



 ${\rm T_A}, {\rm AMBIENT\ TEMPERATURE\ (^\circ C)}$ Fig. 1 Forward. Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics (per element)

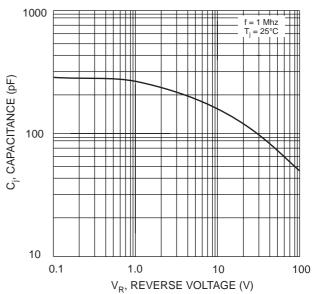
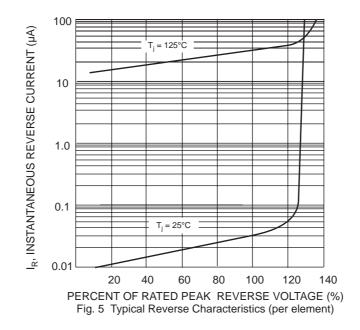


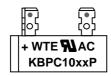
Fig. 4 Typical Junction Capacitance (per element)



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MARKING INFORMATION

KBPC-P

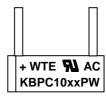


WTE = Manufacturer's Logo KBPC10xxP = Device Number

xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16

Polarity = As Marked on Body

KBPC-PW



WTE = Manufacturer's Logo KBPC10xxPW = Device Number

xx = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16

Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

Case Style	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)			
КВРС-Р	195 x 195 x 40	50	405 x 205 x 240	500	12.0	
KBPC-PW	195 x 195 x 40	50	405 x 205 x 240	500	11.0	

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

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
KBPC1000P	Square Bridge	50 Units/Box			
KBPC1000PW	Square Bridge	50 Units/Box			
KBPC1001P	Square Bridge	50 Units/Box			
KBPC1001PW	Square Bridge	50 Units/Box			
KBPC1002P	Square Bridge	50 Units/Box			
KBPC1002PW	Square Bridge	50 Units/Box			
KBPC1004P	Square Bridge	50 Units/Box			
KBPC1004PW	Square Bridge	50 Units/Box			
KBPC1006P	Square Bridge	50 Units/Box			
KBPC1006PW	Square Bridge	50 Units/Box			
KBPC1008P	Square Bridge	50 Units/Box			
KBPC1008PW	Square Bridge	50 Units/Box			
KBPC1010P	Square Bridge	50 Units/Box			
KBPC1010PW	Square Bridge	50 Units/Box			
KBPC1012P	Square Bridge	50 Units/Box			
KBPC1012PW	Square Bridge	50 Units/Box			
KBPC1014P	Square Bridge	50 Units/Box			
KBPC1014PW	Square Bridge	50 Units/Box			
KBPC1016P	Square Bridge	50 Units/Box			
KBPC1016PW	Square Bridge	50 Units/Box			

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBPC1000P-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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