

KBPC1000P/W - KBPC1010P/W

10A HIGH CURRENT BRIDGE RECTIFIER

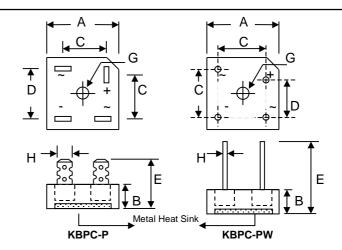
Features

- 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
- UL Recognized File # E157705

Mechanical Data

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Weight: KBPC-P 24 grams (approx.)
 KBPC-PW 21 grams (approx.)
- Marking: Type Number

"W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals *All Models are Available on B(Height)=7.9mm Max. Epoxy Case



	KBPC-P		KBPC-PW			
Dim	Min	Max	Min	Max		
Α	28.40	28.70	28.40	28.70		
В	10.97	11.23	10.97	11.23		
С	15.70	16.70	17.10	19.10		
D	17.50	18.50	10.90	11.90		
E	22.86	25.40	30.50	_		
G	G Hole for #10 screw, 5.08Ø Nominal					
Н	6.35 7	ypical	0.97Ø	1.07Ø		
All Dimension in mm						

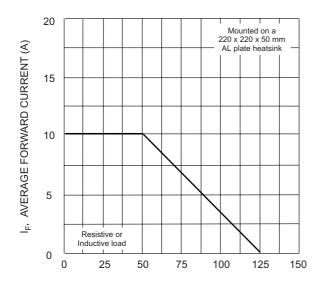
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

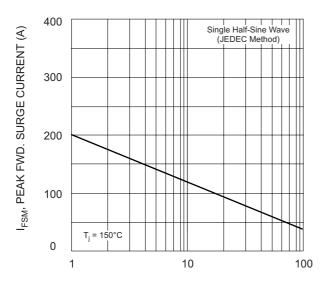
Characteristic	Symbol	KBPC 1000P/W	KBPC 1001P/W	KBPC 1002P/W	KBPC 1004P/W	KBPC 1006P/W	KBPC 1008P/W	KBPC 1010P/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @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)	İFSM	200						Α	
Forward Voltage (per element) @I _F = 5.0A	Vғм	1.1						V	
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	lгм	10 0.5						μA mA	
Typical Junction Capacitance (Note 1)	Cj	200						pF	
Typical Thermal Resistance (Note 2)	R⊕JC	6.3						K/W	
RMS Isolation Voltage from Case to Lead	Viso	2500					V		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +125						°C	

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

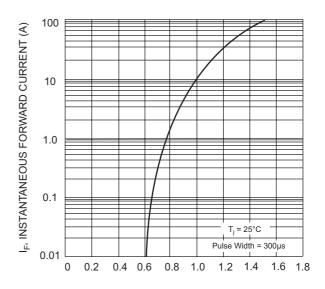
2. Thermal resistance junction to case per element mounted on heatsink.



 ${\rm T_A}, {\rm AMBIENT\ TEMPERATURE\ (^\circ C)}$ 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)

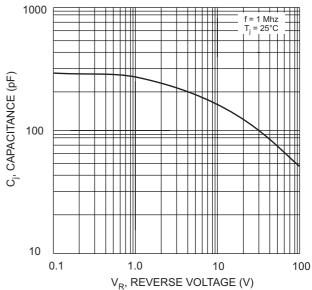


Fig. 4 Typical Junction Capacitance (per element)

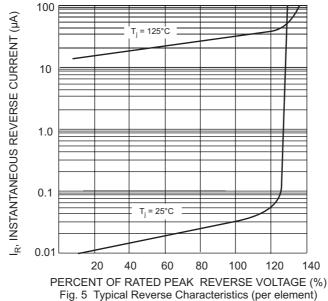


Fig. 5 Typical Reverse Characteristics (per element)

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			

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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