

# **KBPC1000P/W – KBPC1010P/W**

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## **10A HIGH CURRENT BRIDGE RECTIFIER**

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#### **Features**

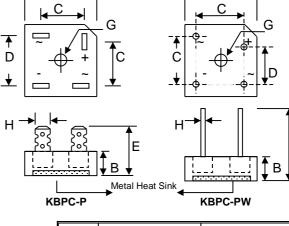
- **Diffused Junction**
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Epoxy Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V
- UL Recognized File # E157705

#### **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.)

\*All Models are Available on B(Height)=7.9mm

Marking: Type Number



		KBP	PC-P	KBPC-PW				
	Dim	Min	Max	Min	Max			
N N	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			
.0	D	17.50	18.50	10.90	11.90			
nates Wire Leads 🌙	Ē	22.86	25.40	30.50				
Faston Terminals	G	Hole for #10 screw, 5.08Ø Nominal						
Max. Epoxy Case	H I	6.35 T	ypical	0.97Ø	1.07Ø			
	All Dimension in mm							

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

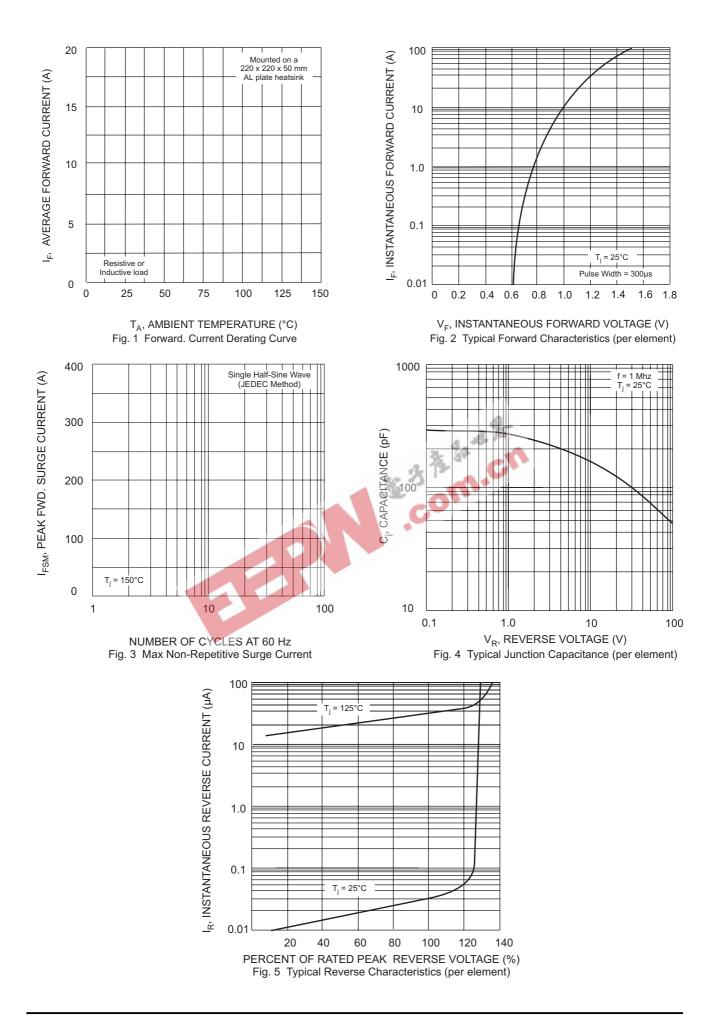
"W" Suffix Desig No Suffix Designates

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 @ $T_A = 50^{\circ}C$	lo	10						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					A		
Forward Voltage (per element) $@I_F = 5.0A$	Vfm	1.1						V	
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	IRM	10 0.5					μA mA		
Typical Junction Capacitance (Note 1)	Cj	200						pF	
Typical Thermal Resistance (Note 2)	R <i>θ</i> JC	6.3					K/W		
RMS Isolation Voltage from Case to Lead	Viso	2500					V		
Operating and Storage Temperature Range	Tj, Tstg	-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.



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

#### **ORDERING INFORMATION**

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

num order

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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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