

KBPC1000/W – KBPC1010/W

10A HIGH CURRENT BRIDGE RECTIFIER

Features

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

Mechanical Data

- Case: Metal Case with Electrically Isolated Epoxy
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Weight: KBPC 31.6 grams (approx.) KBPC-W 28.5 grams (approx.)
- Marking: Type Number

"W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals



KBPC

KBPC-W

E

	KBPC		KBPC-W			
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 Hole for #10 screw, 5.08Ø Nominal						
н	6.35 T	ypical	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	Symbol	KBPC 1000/W	KBPC 1001/W	KBPC 1002/W	KBPC 1004/W	KBPC 1006/W	KBPC 1008/W	KBPC 1010/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	1.2					V		
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	I RM	10 1.0					μA mA		
Typical Junction Capacitance (Note 1)	Cj	300					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	Тј, Тѕтс	-65 to +150						°C	

* Glass passivated forms are available upon request.

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		
KBPC1000	Square Bridge	50 Units/Box		
KBPC1000W	Square Bridge	50 Units/Box		
KBPC1001	Square Bridge	50 Units/Box		
KBPC1001W	Square Bridge	50 Units/Box		
KBPC1002	Square Bridge	50 Units/Box		
KBPC1002W	Square Bridge	50 Units/Box		
KBPC1004	Square Bridge	50 Units/Box		
KBPC1004W	Square Bridge	50 Units/Box		
KBPC1006	Square Bridge	50 Units/Box		
KBPC1006W	Square Bridge	50 Units/Box		
KBPC1008	Square Bridge	50 Units/Box		
KBPC1008W	Square Bridge	50 Units/Box		
KBPC1010	Square Bridge	50 Units/Box		
KBPC1010W	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.

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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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