

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

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KBPC

KBPC-W

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
- **KBPC** 31.6 grams (approx.) Weight: KBPC-W 28.5 grams (approx.)
- Marking: Type Number

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

	KB	PC	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 @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 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°C	lo	10							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200							Α
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 $@T_C = 125^{\circ}C$	IRM	10 1.0						μA mA	
Typical Junction Capacitance (Note 1)	Cj	300						pF	
Typical Thermal Resistance (Note 2)	R _θ JC	6.3						K/W	
RMS Isolation Voltage from Case to Lead	Viso	2500							V
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150							°C

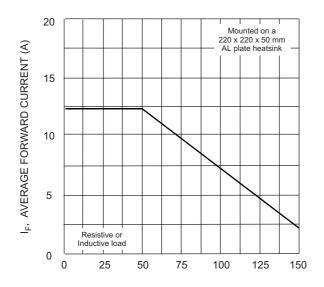
^{*} Glass passivated forms are available upon request.

- 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.

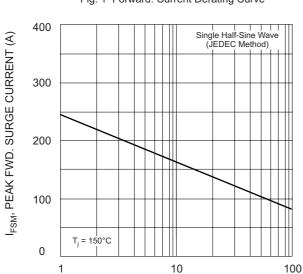


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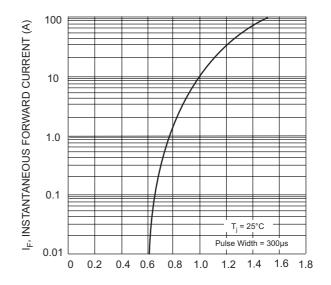
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 T_A , AMBIENT TEMPERATURE (°C) Fig. 1 Forward. Current Derating Curve



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)

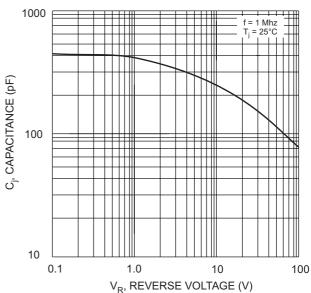


Fig. 4 Typical Junction Capacitance (per element)

