

KBPC1000S - KBPC1010S

10A IN-LINE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Designed for Saving Mounting Space
- UL Recognized File # E157705

Mechanical Data

 Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation

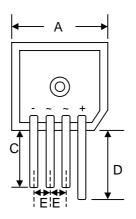
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

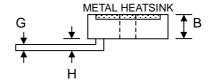
Weight: 30 grams (approx.)

Mounting Position: Any

Marking: Type Number



KBPC-S					
Dim	Min	Max			
Α	28.40	28.70			
В	10.97	11.23			
С	13.90	_			
D	19.10	_			
E	5.10				
G	1.20 Ø Typical				
Н	3.05	3.60			
All Dimensions in mm					



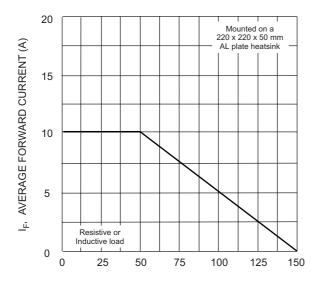
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

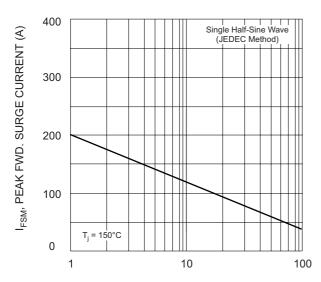
Characteristic	Symbol	KBPC 1000S	KBPC 1001S	KBPC 1002S	KBPC 1004S	KBPC 1006S	KBPC 1008S	KBPC 1010S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified 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					А		
Forward Voltage (per element) @I _F = 5.0A	VFM	1.2						V	
	lr	10 1.0						μA mA	
Rating for Fusing (t < 8.3ms) (Note 1)	l ² t	374						A ² s	
Typical Thermal Resistance (Note 2)	R _θ JC	2.0					K/W		
RMS Isolation Voltage from Case to Lead	Viso	2500					V		
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150					°C		

Note: 1. Non-repetitive for t > 1ms and < 8.3ms.

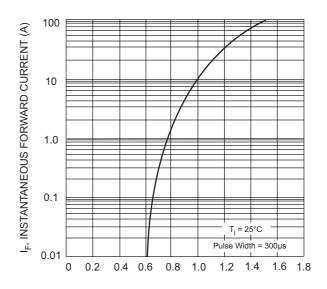
2. Thermal resistance junction to case per element mounted on 8" x 8" x 25" thick AL plate.



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

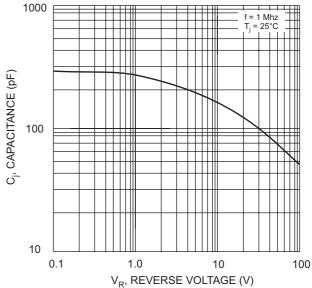


Fig. 4 Typical Junction Capacitance (per element)

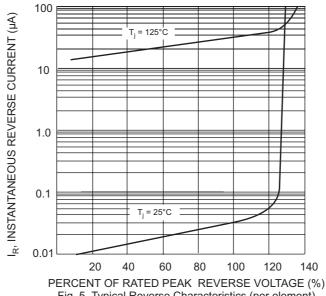


Fig. 5 Typical Reverse Characteristics (per element)

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
KBPC1000S	SIL Bridge	72 Units/Box			
KBPC1001S	SIL Bridge	72 Units/Box			
KBPC1002S	SIL Bridge	72 Units/Box			
KBPC1004S	SIL Bridge	72 Units/Box			
KBPC1006S	SIL Bridge	72 Units/Box			
KBPC1008S	SIL Bridge	72 Units/Box			
KBPC1010S	SIL Bridge	72 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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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