

KBPC1000GS - KBPC1010GS

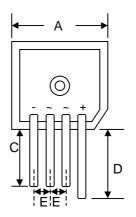
10A GLASS PASSIVATED IN-LINE BRIDGE RECTIFIER

Features

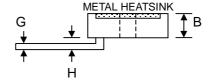
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- **High Current Capability**
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Designed for Saving Mounting Space

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					



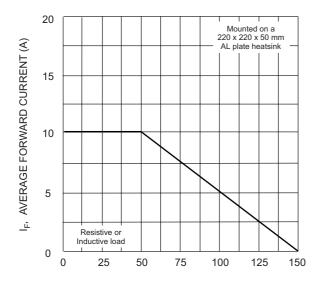
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

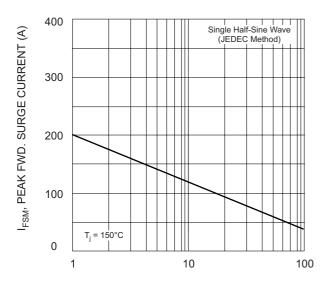
Characteristic	Symbol	KBPC 1000GS	KBPC 1001GS	KBPC 1002GS	KBPC 1004GS	KBPC 1006GS	KBPC 1008GS	KBPC 1010GS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified 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	1.1					V		
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 125°C	lr	5.0 500					μΑ		
Rating for Fusing (t < 8.3ms) (Note 1)	l ² t	374					A^2s		
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	-65 to +150					°C		

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

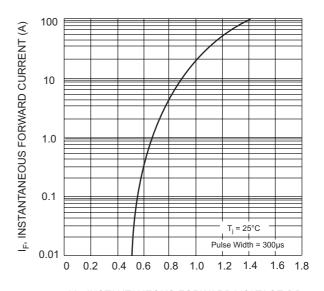
2. Thermal resistance junction to case per element mounted on 220 x 220 x 50mm thick AL plate.



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

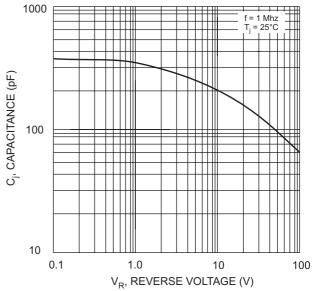
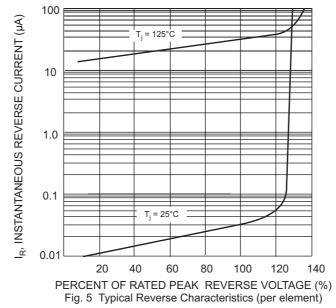


Fig. 4 Typical Junction Capacitance (per element)



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC1000GS	SIL Bridge	72 Units/Box
KBPC1001GS	SIL Bridge	72 Units/Box
KBPC1002GS	SIL Bridge	72 Units/Box
KBPC1004GS	SIL Bridge	72 Units/Box
KBPC1006GS	SIL Bridge	72 Units/Box
KBPC1008GS	SIL Bridge	72 Units/Box
KBPC1010GS	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.

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