

KBPC15, 25, 35GS SERIES

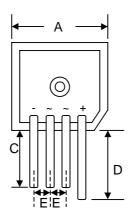
15, 25, 35A GLASS PASSIVATED IN-LINE BRIDGE RECTIFIER

Features

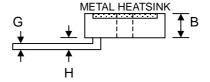
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Designed for Saving Mounting Space

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			
C	13.90				
D	19.10	_			
E	5.10				
G	1.20 Ø Typical				
H	3.05	3.60			
All Dimensions in mm					



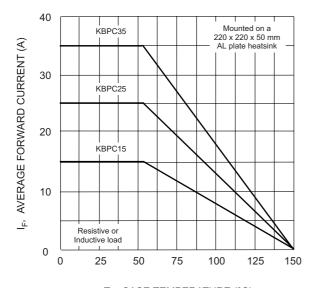
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

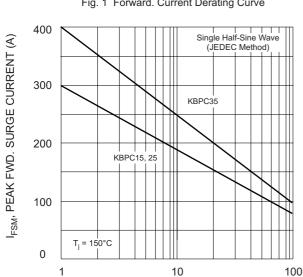
Characteristics	Symbol	-00GS	-01GS	-02GS	-04GS	-06GS	-08GS	-10GS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current KBPC15 $@T_C = 55$ °C KBPC35	lo				15 25 35				А
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half-sine-wave Superimposed KBPC25 on Rated Load (JEDEC Method) KBPC35		300 300 400						А	
Forward Voltage Drop (per element) $ \begin{array}{c} \text{KBPC15 @I}_{\text{F}} = 7.5\text{A} \\ \text{KBPC25 @I}_{\text{F}} = 12.5\text{A} \\ \text{KBPC35 @I}_{\text{F}} = 17.5\text{A} \end{array} $		1.1						٧	
Peak Reverse Current at $@T_C = 25^{\circ}C$ Rated DC Blocking Voltage (per element) $@T_C = 125^{\circ}C$		5.0 500						μΑ	
I ² t Rating for Fusing (t < 8.3ms) (Note 1) KBPC15 KBPC25 KBPC35		374 374 664						A ² s	
Typical Thermal Resistance (per element) (Note 2)		2.0						K/W	
RMS Isolation Voltage from Case to Lead		2500						V	
Operating and Storage Temperature Range		-65 to +150						°C	

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

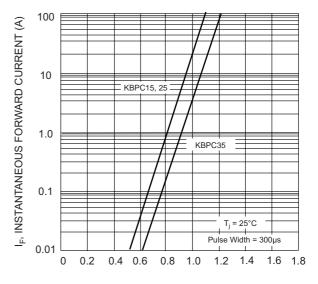
2. Thermal resistance junction to case per element mounted on 220 x 220 x 50mm thick AL plate.



 $T_{\rm C}$, CASE 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)

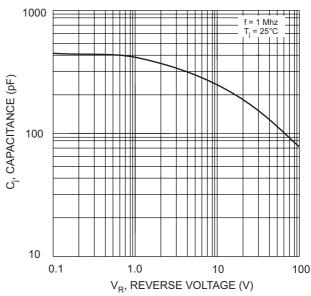
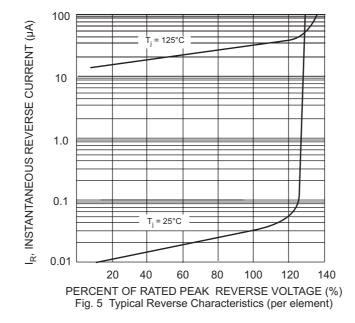


Fig. 4 Typical Junction Capacitance (per element)



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPCxx00GS	SIL Bridge	72 Units/Box
KBPCxx01GS	SIL Bridge	72 Units/Box
KBPCxx02GS	SIL Bridge	72 Units/Box
KBPCxx04GS	SIL Bridge	72 Units/Box
KBPCxx06GS	SIL Bridge	72 Units/Box
KBPCxx08GS	SIL Bridge	72 Units/Box
KBPCxx10GS	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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