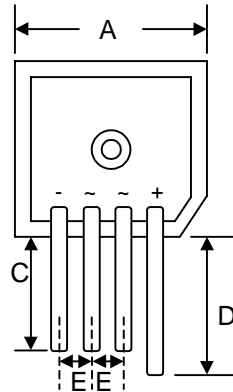


Features

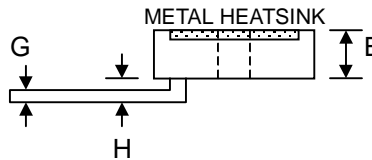
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Designed for Saving Mounting Space

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
A	28.40	28.70
B	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 @ $T_A=25^\circ\text{C}$ 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	V_{RRM}								V
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	
DC Blocking Voltage	V_R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_C = 55^\circ\text{C}$	I_O				15	25	35		A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half-sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}				300	300	400		A
Forward Voltage Drop (per element)	V_{FM}				1.1				V
Peak Reverse Current at Rated DC Blocking Voltage (per element)	I_R				5.0	500			μA
I^2t Rating for Fusing ($t < 8.3\text{ms}$) (Note 1)	I^2t				374	374	664		A^2s
Typical Thermal Resistance (per element) (Note 2)	$R_{\theta JC}$				2.0				K/W
RMS Isolation Voltage from Case to Lead	V_{ISO}				2500				V
Operating and Storage Temperature Range	T_j, T_{STG}				-65 to +150				$^\circ\text{C}$

Note: 1. Non-repetitive for $t > 1\text{ms}$ and $< 8.3\text{ms}$.

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

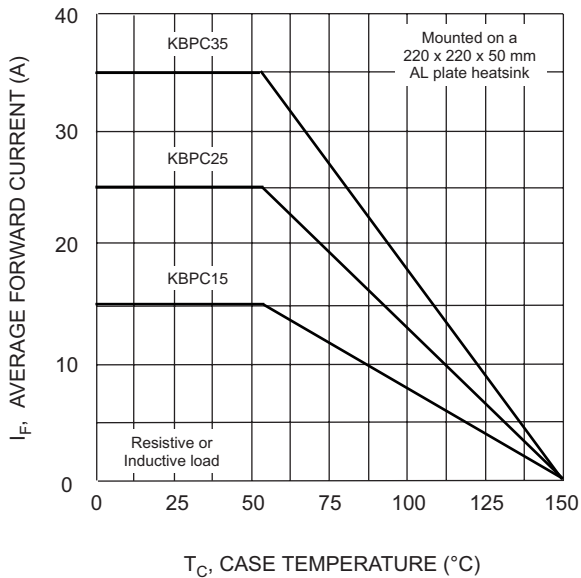


Fig. 1 Forward Current Derating Curve

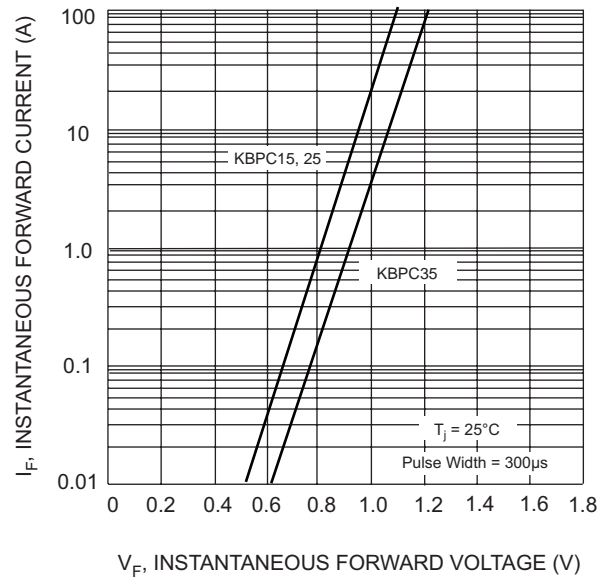


Fig. 2 Typical Forward Characteristics (per element)

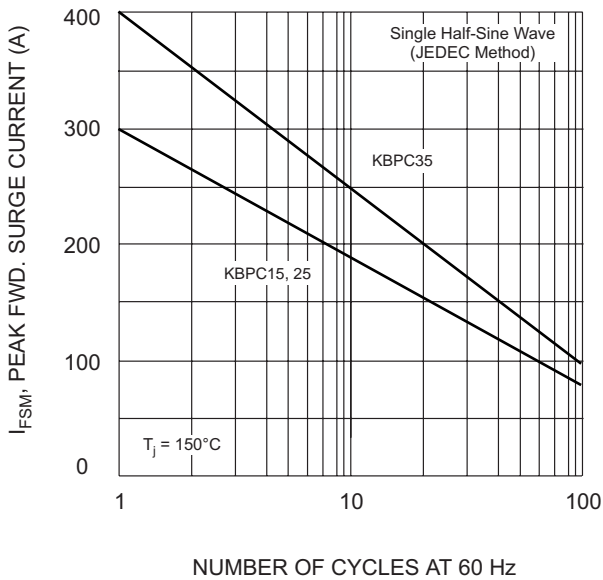


Fig. 3 Max Non-Repetitive Surge Current

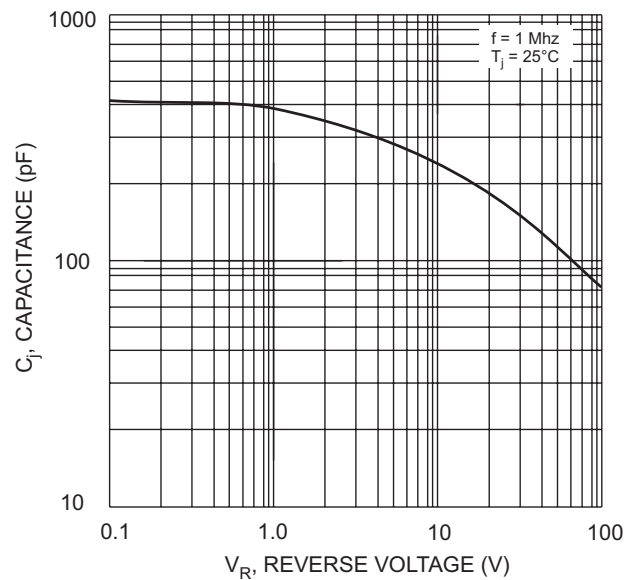


Fig. 4 Typical Junction Capacitance (per element)

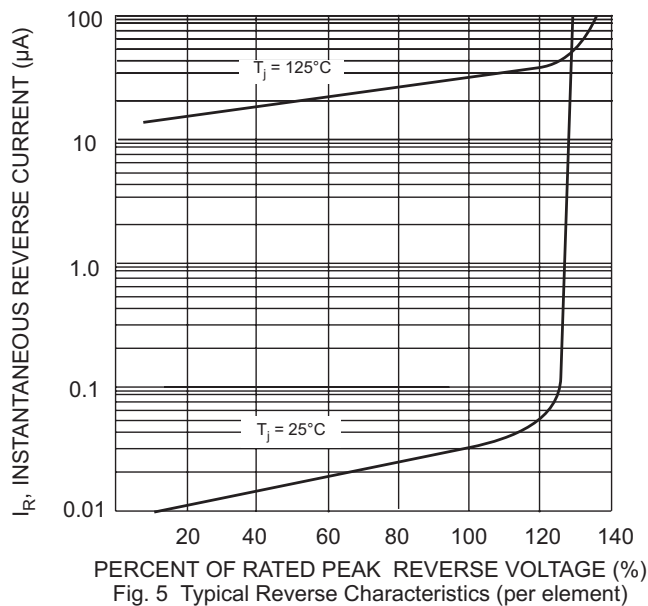


Fig. 5 Typical Reverse Characteristics (per element)

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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