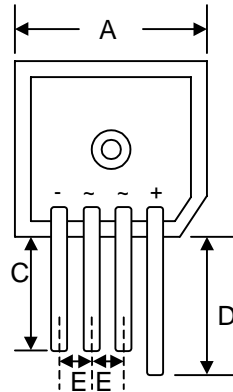


Features

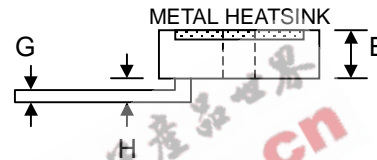
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Designed for Saving Mounting Space
- UL Recognized File # E157705

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
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°C unless otherwise specified

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

Characteristics	Symbol	-00S	-01S	-02S	-04S	-06S	-08S	-10S	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 = 60°C	I _O					15				A
						25				
						35				
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half-sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}					300				A
						300				
						400				
Forward Voltage Drop (per element)	V _{FM}					1.2				V
						1.2				
Peak Reverse Current at Rated DC Blocking Voltage (per element)	I _R					10				μA
						1.0				mA
I ² t Rating for Fusing (t < 8.3ms) (Note 1)	I ² t					374				A ² s
						374				
						664				
Typical Thermal Resistance (per element) (Note 2)	R _{θJC}					2.0				K/W
RMS Isolation Voltage from Case to Lead	V _{ISO}					2500				V
Operating and Storage Temperature Range	T _J , T _{STG}					-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.

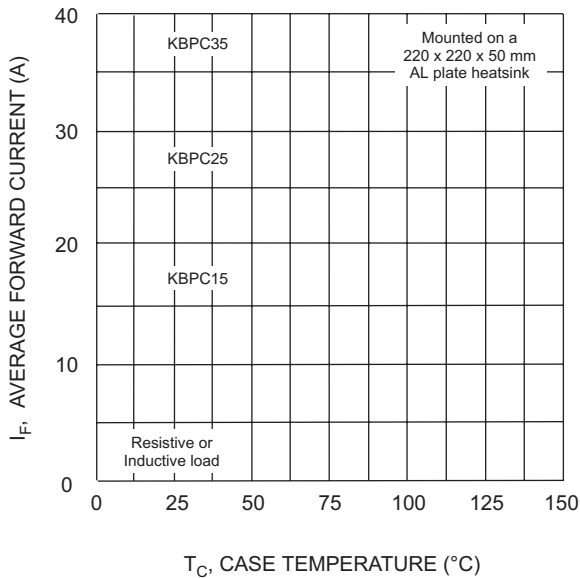


Fig. 1 Forward Current Derating Curve

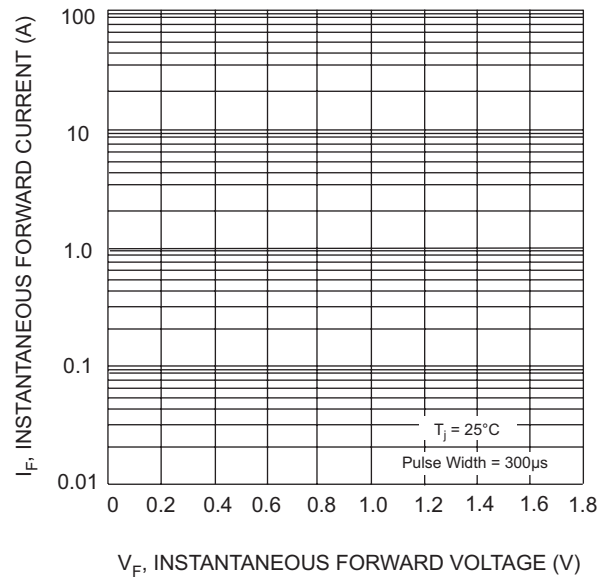


Fig. 2 Typical Forward Characteristics (per element)

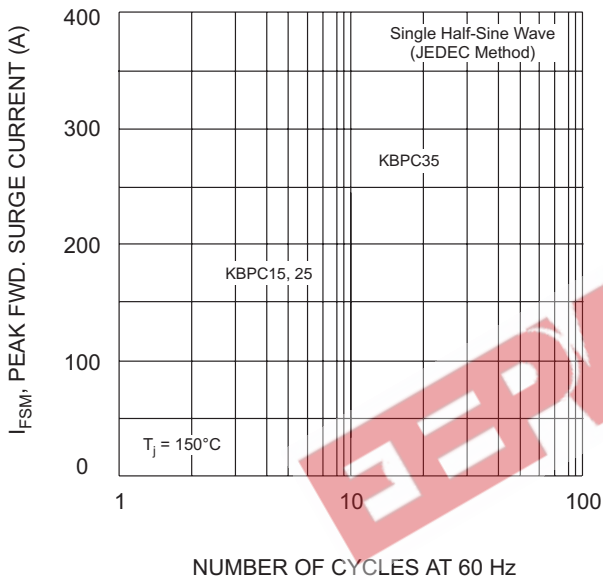


Fig. 3 Max Non-Repetitive Surge Current

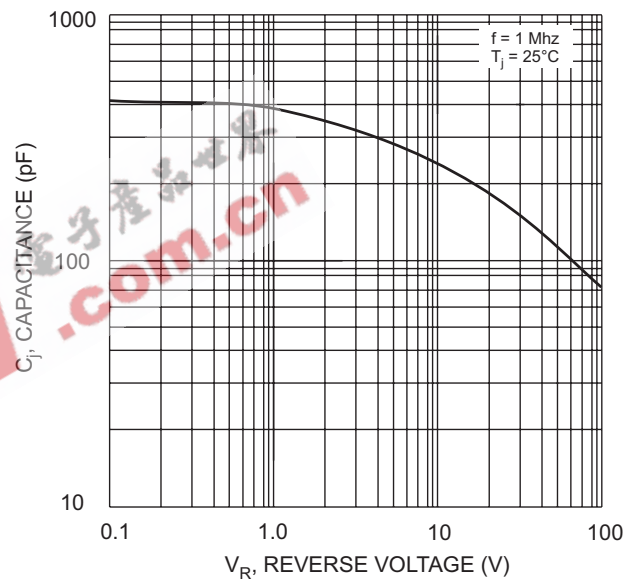


Fig. 4 Typical Junction Capacitance (per element)

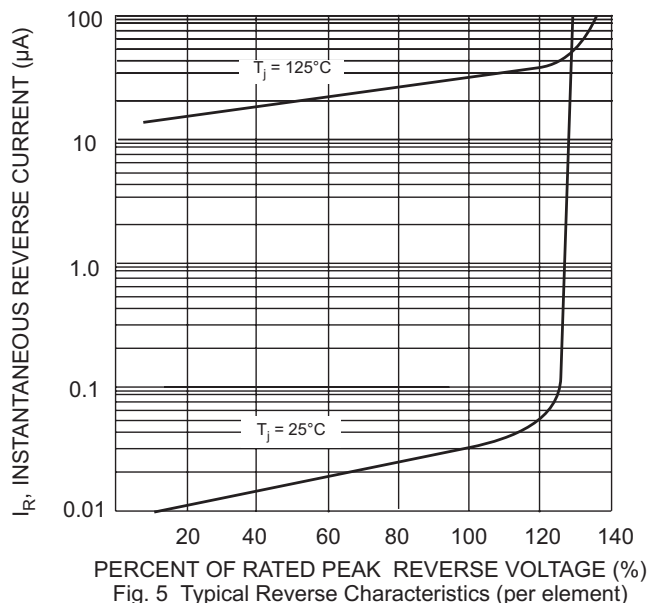


Fig. 5 Typical Reverse Characteristics (per element)

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPCxx00S	SIL Bridge	72 Units/Box
KBPCxx01S	SIL Bridge	72 Units/Box
KBPCxx02S	SIL Bridge	72 Units/Box
KBPCxx04S	SIL Bridge	72 Units/Box
KBPCxx06S	SIL Bridge	72 Units/Box
KBPCxx08S	SIL Bridge	72 Units/Box
KBPCxx10S	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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