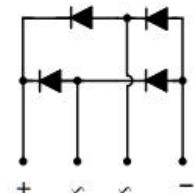
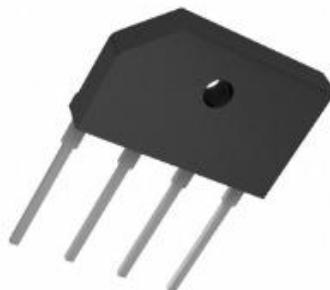




1. Features

- Glass Passivated Die Construction
- Low forward voltage drop
- High surge current capability.
- Plastic material-UL flammability 94V-0.

KBJ



2. Mechanical Data

- Case: KBJ Molded Plastic .
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case.
- Marking Information: Type Number.
- Mounting Position : Any.

3. Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load derate current by 20%

Type Number	Symbol	KBJ 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum average forward rectified current (Note2)	$I_{F(AV)}$					10			A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}					200			A
I^2t Rating for fusing ($t < 8.3ms$)	I^2t				166				A^2s
Forward Voltage per element @ $I_F = 5.0A$	V_{FM}				1.0				V
@ $I_F = 10.0A$					1.1				V
Peak Reverse Current @ $T_J = 25^\circ C$	I_R				10				μA
At Rated DC Blocking Voltage @ $T_J = 125^\circ C$					500				
Typical Junction Capacitance (Note 1)	C_J				62				pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$				3				$^\circ C/W$
Operating Temperature Range	T_J				-55 to +150				$^\circ C$
Storage Temperature Range	T_{STG}				-55 to +150				$^\circ C$

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C
2. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.



4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

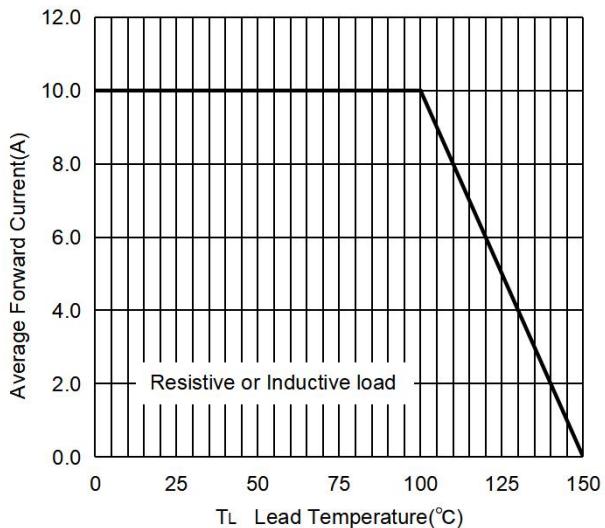


Fig. 2 Typ. Forward Characteristics

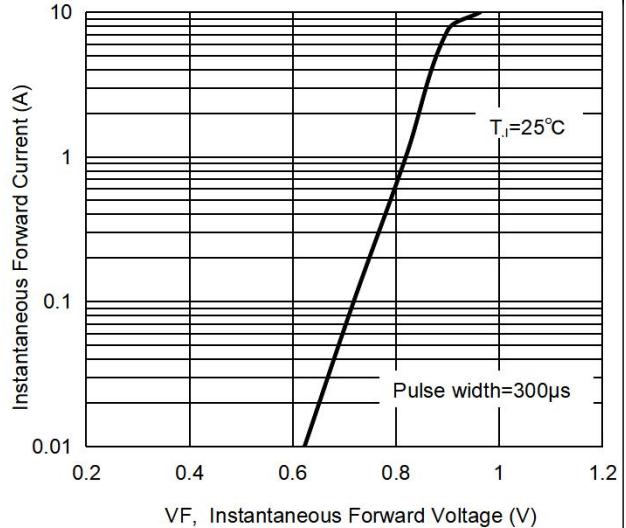


Fig.3 Maximum Peak Forward Surge Current

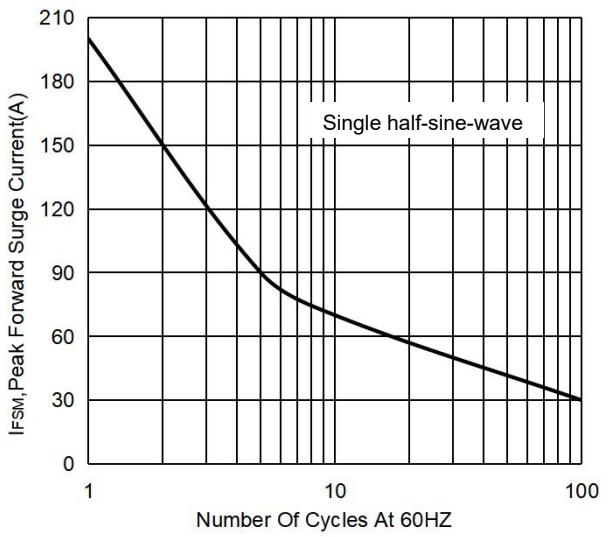
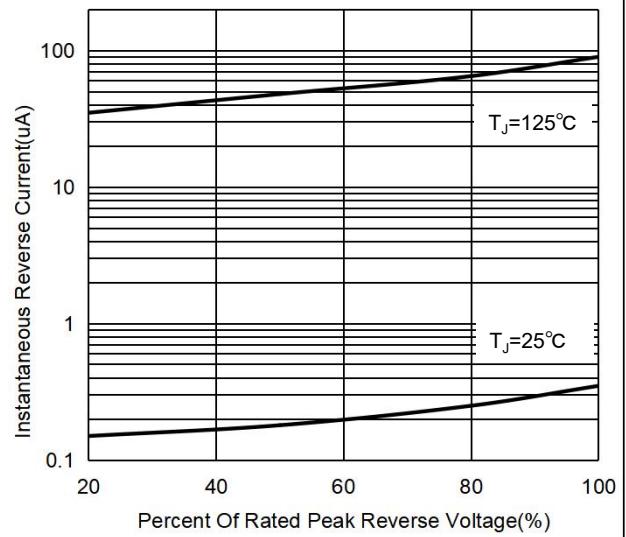
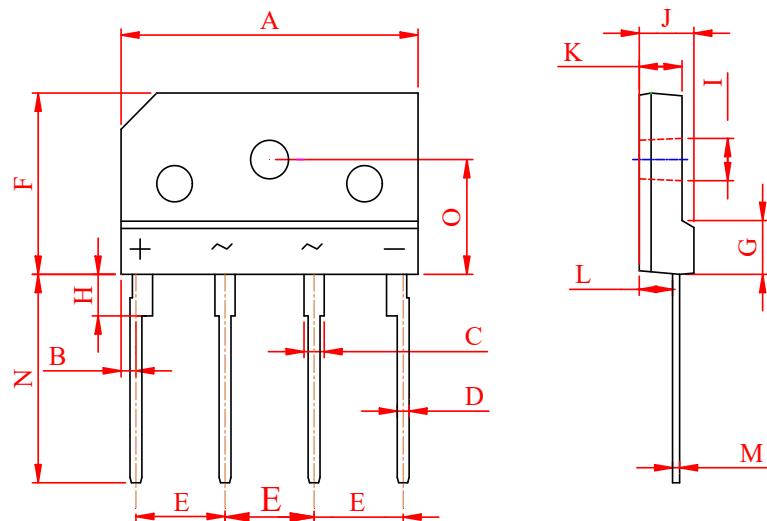


Fig.4 Typical Reverse Characteristics





5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.972	0.996	24.70	25.30
B	0.037	0.057	0.95	1.45
C	0.059	0.075	1.50	1.90
D	0.035	0.043	0.90	1.10
E	0.287	0.303	7.30	7.70
F	0.579	0.602	14.70	15.30
G	0.157		4.00	
H	0.130	0.146	3.30	3.70
I	0.122	0.138	3.10	3.50
J	0.173	0.189	4.40	4.80
K	0.126	0.150	3.20	3.80
L	0.098	0.114	2.50	2.90
M	0.016	0.031	0.40	0.80
N	0.630	0.709	16.00	18.00
O	0.366	0.390	9.30	9.90



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