



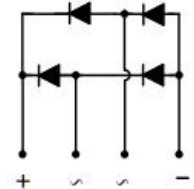
KBJ4005G THUR KBJ410G

Single Phase 4.0 AMP Glass Passivated Bridge Rectifier

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,Method208
- 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 4005G	KBJ 401G	KBJ 402G	KBJ 404G	KBJ 406G	KBJ 408G	KBJ 410G	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum average forward rectified current(Note2)	$I_{F(AV)}$	4							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	130							A
I^2t Rating for fusing (t < 8.3ms)	I^2t	70							A ² s
Forward Voltage per element @ $I_F=2.0A$ @ $I_F=4.0A$	V_{FM}	1.0							V
		1.1							V
Peak Reverse Current @ $T_J=25\text{ }^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J=125\text{ }^\circ\text{C}$	I_R	5							uA
		500							
Typical Junction Capacitance (Note 1)	C_J	35							pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	5.5							°C/W
Dielectric Strength	V_{ids}	2500							V
The proposed installation torque	Tor	5							Kgf.cm
Max torque		8							
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°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

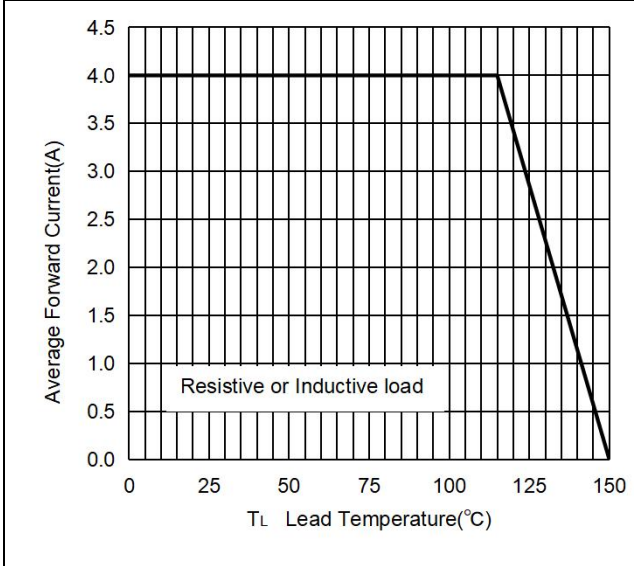


Fig. 2 Typ. Forward Characteristics

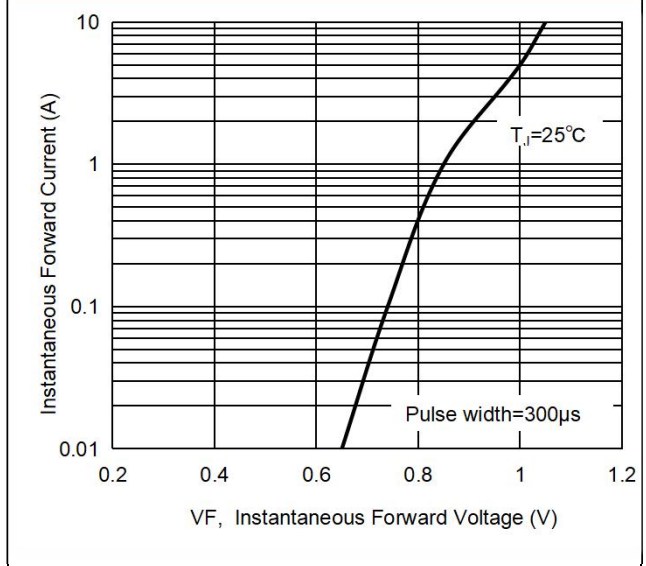


Fig.3 Maximum Peak Forward Surge Current

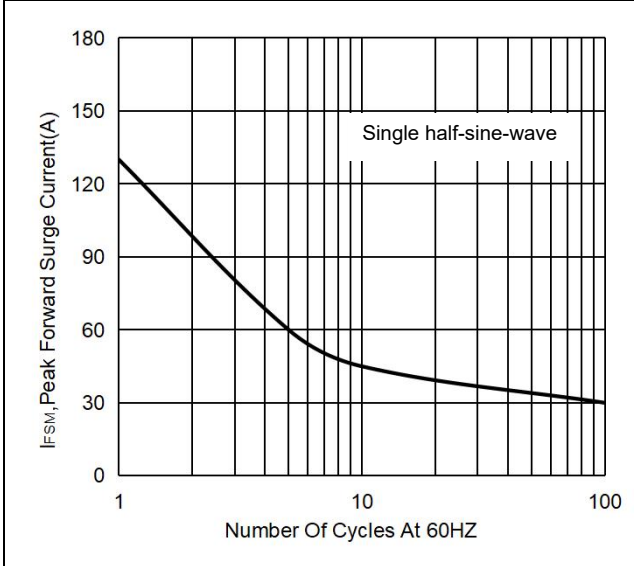
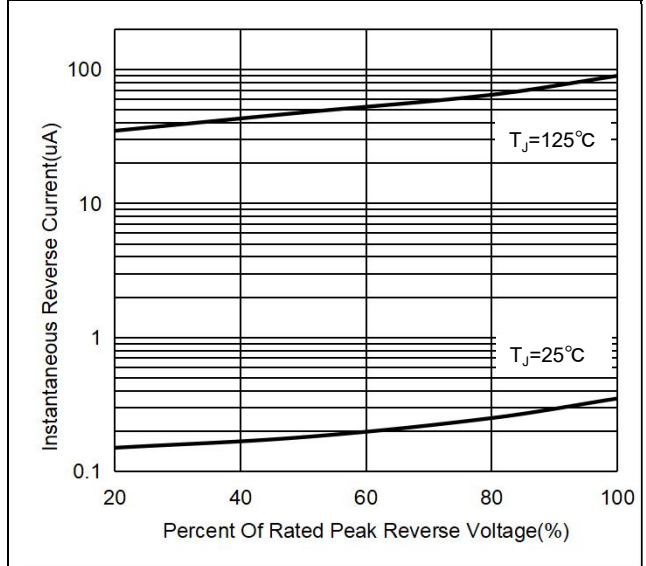


Fig.4 Typical Reverse Characteristics

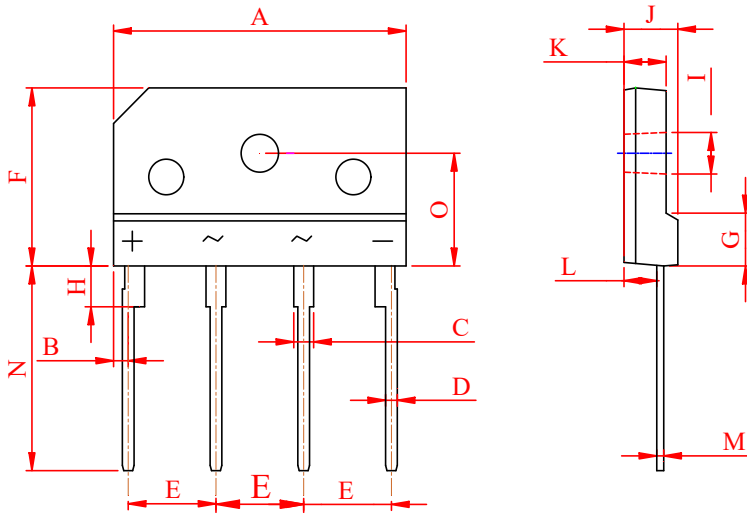




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5. Dimensions



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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