

KBJ4005G THUR KBJ410G

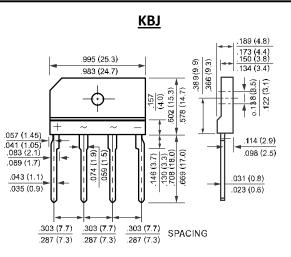
Single Phase 4.0 AMP Glass Passivated Bridge Rectifier

Features

- Glass passivated die construction.
- Low forward voltage drop.
- High surge current capability.
- Plastic material-UL flammability 94V-0.

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



Dimensions in inches and (millimeters)

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	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	VRWM	50	100	200	400	600	800	1000	v
DC Blocking Voltage	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum average forward rectified current	IF(AV)	4.0						A	
Peak Forward Surge Current									
8.3ms Single half sine-wave superimposed	I _{FSM}	I _{FSM} 150							A
on rated load (JEDEC Method)									
I ² t Rating for fusing (t<8.3ms)	l²t	93						A ² s	
Forward Voltage per element @IF=2.0A		1.0 1.1							v
@IF=4.0A	VFM								
Maximum DC Reverse Current @T _A =25℃		10.0 500							uA
at Rated DC Blocking Voltage @T _A =125℃	I _R								
Typical Junction Capacitance (Note 1)	Сл	45						pF	
Typical Thermal Resistance (Note2)	R _{eJC}	2.2							°C/W
Storage temperature range	Тѕтс	-55 to +150							°C
Operating junction temperature range	TJ	-55 to +150							°C

NOTES:

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.



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Rating And Characteristic Curves

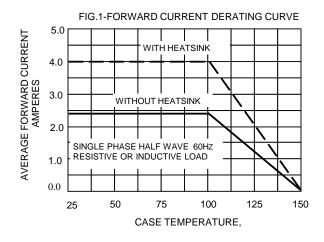


FIG.3-TYPICAL FORWARD CHARACTERISTICS

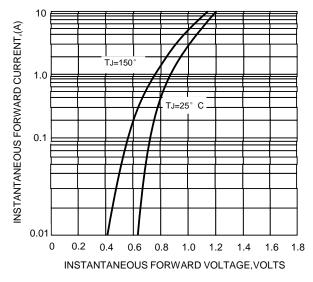


FIG.5-TYPICAL JUNCTION CAPACITANCE

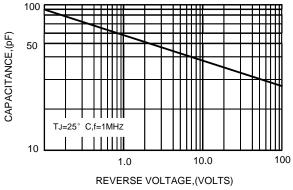


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

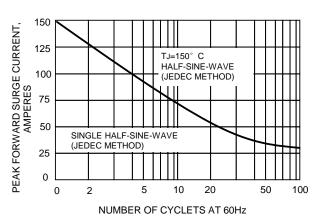
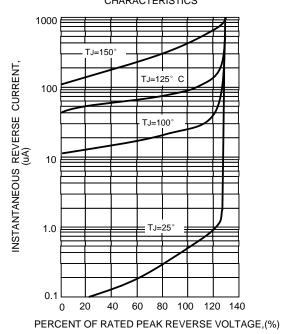


FIG.4-TYPICAL REVERSE CHARACTERISTICS





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