

KBJ4005G thru KBJ404G

Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 50 \text{ V} - 400 \text{ V}$ $I_{O} = 4 \text{ A}$

Features

- · Ideal for printed circuit board
- Reliable low cost construction
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Surge overload rating to 120 Amperes peak
- Types from 50 V to 400 V V_{RRM}
- Not ESD Sensitive

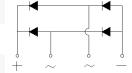
Mechanical Data

Case: Molded plastic

Weight: 0.15 ounce, 4.0 grams Mounting torque: 5 inch-lb max











Maximum ratings at T_i = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBJ4005G	KBJ401G	KBJ402G	KBJ404G	Unit
Repetitive peak reverse ve	oltage V _{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Operating temperature	T _j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics at Tj = 25 °C, unless otherwise specified

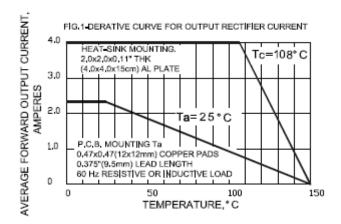
Single phase, half sine wave, 60 Hz, resistive or inductive load

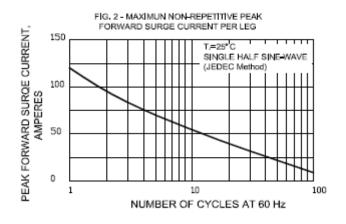
For capacitive load derate current by 20%

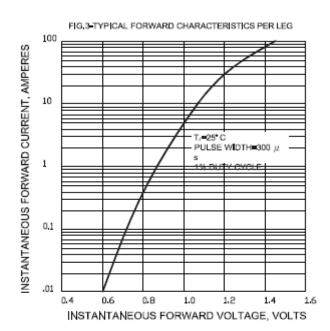
Parameter	Symbol	Conditions	KBJ4005G	KBJ401G	KBJ402G	KBJ404G	Unit
Maximum average forward rectified current	I _O	T _c = 108 °C	4	4	4	4	Α
		$T_a = 25 ^{\circ}C$	2.3	2.3	2.3	2.3	
Peak forward surge current	I _{FSM}	8.3 ms single sine-wave	120	120	120	120	Α
Maximum instantaneous forward voltage per leg	V_{F}	I _F = 4 A	1.1	1.1	1.1	1.1	V
Maximum reverse current at rated DC blocking voltage per leg	I _R	T _a = 25 °C	5	5	5	5	μA
		T _a = 125 °C	500	500	500	500	

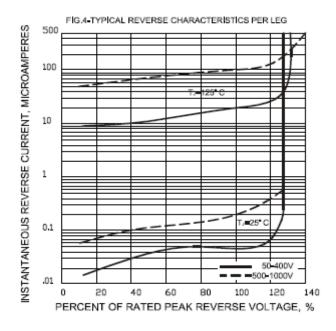


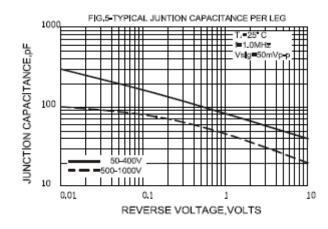
KBJ4005G thru KBJ404G

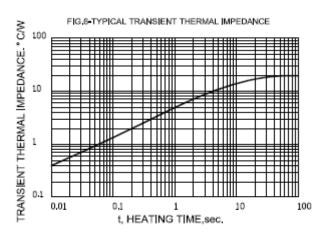








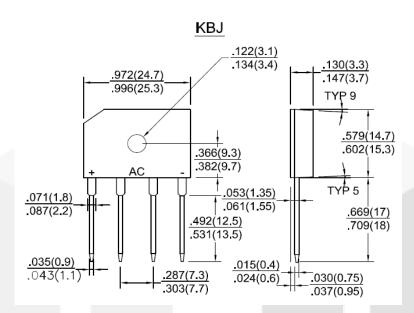






Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)

