

# Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 600\text{ V} - 1000\text{ V}$ 
 $I_O = 4\text{ A}$ 

## Features

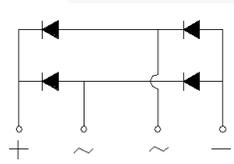
- Ideal for printed circuit board
- Reliable low cost construction
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Surge overload rating to 120 Amperes peak
- Types from 50 V to 400 V  $V_{RRM}$
- Not ESD Sensitive

## Mechanical Data

Case: Molded plastic

Weight: 0.15 ounce, 4.0 grams

Mounting torque: 5 inch-lb max



KBJ Package



## Maximum ratings at $T_a = 25\text{ °C}$ (ambient temperature), unless otherwise specified

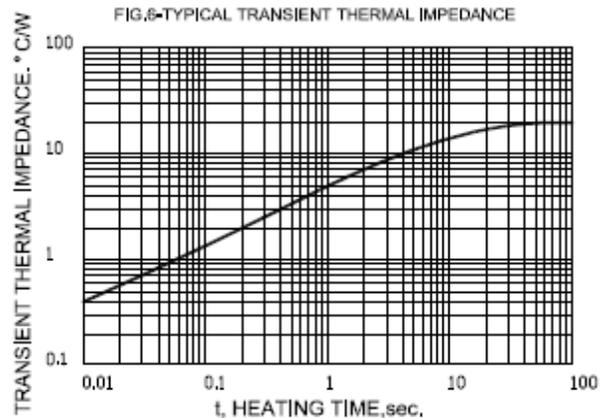
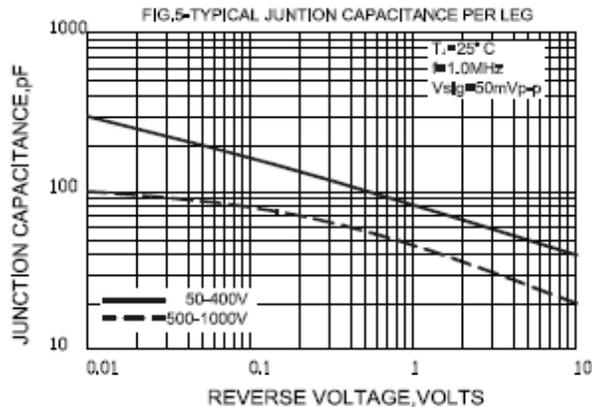
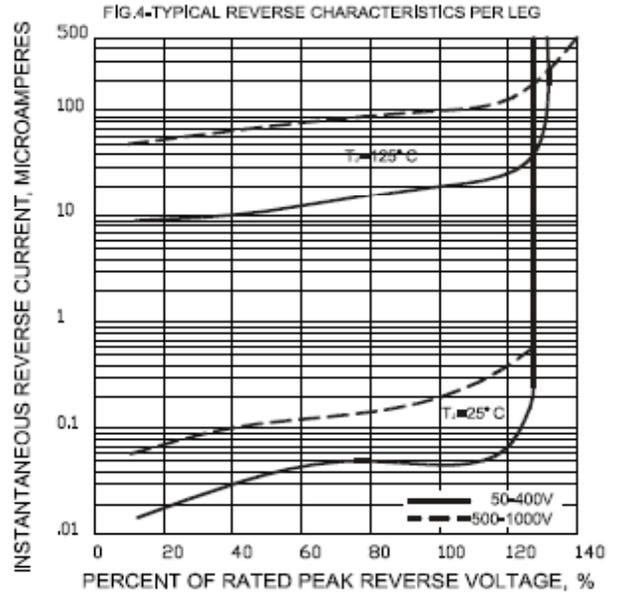
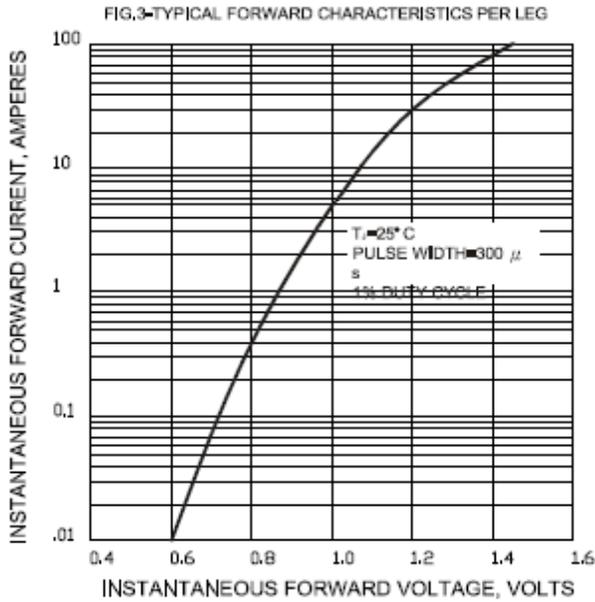
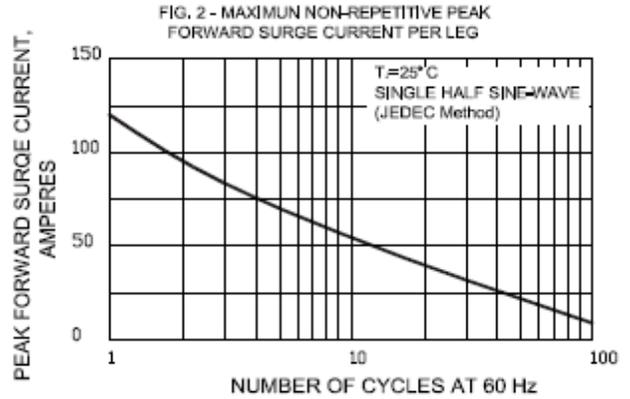
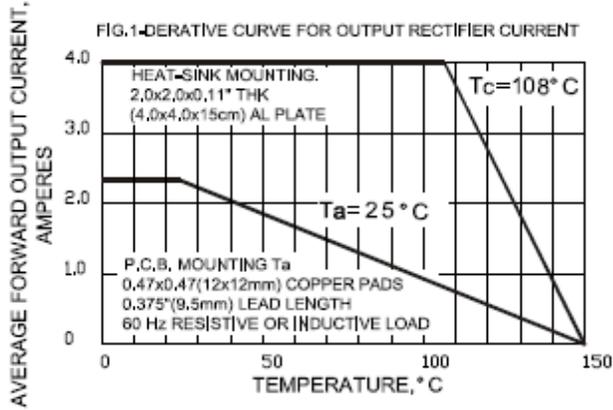
Parameter	Symbol	Conditions	KBJ406G	KBJ408G	KBJ410G	Unit
Repetitive peak reverse voltage	$V_{RRM}$		600	800	1000	V
RMS reverse voltage	$V_{RMS}$		420	560	700	V
DC blocking voltage	$V_{DC}$		600	800	1000	V
Operating temperature	$T_j$		-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	°C

## Electrical characteristics at $T_a = 25\text{ °C}$ , unless otherwise specified

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

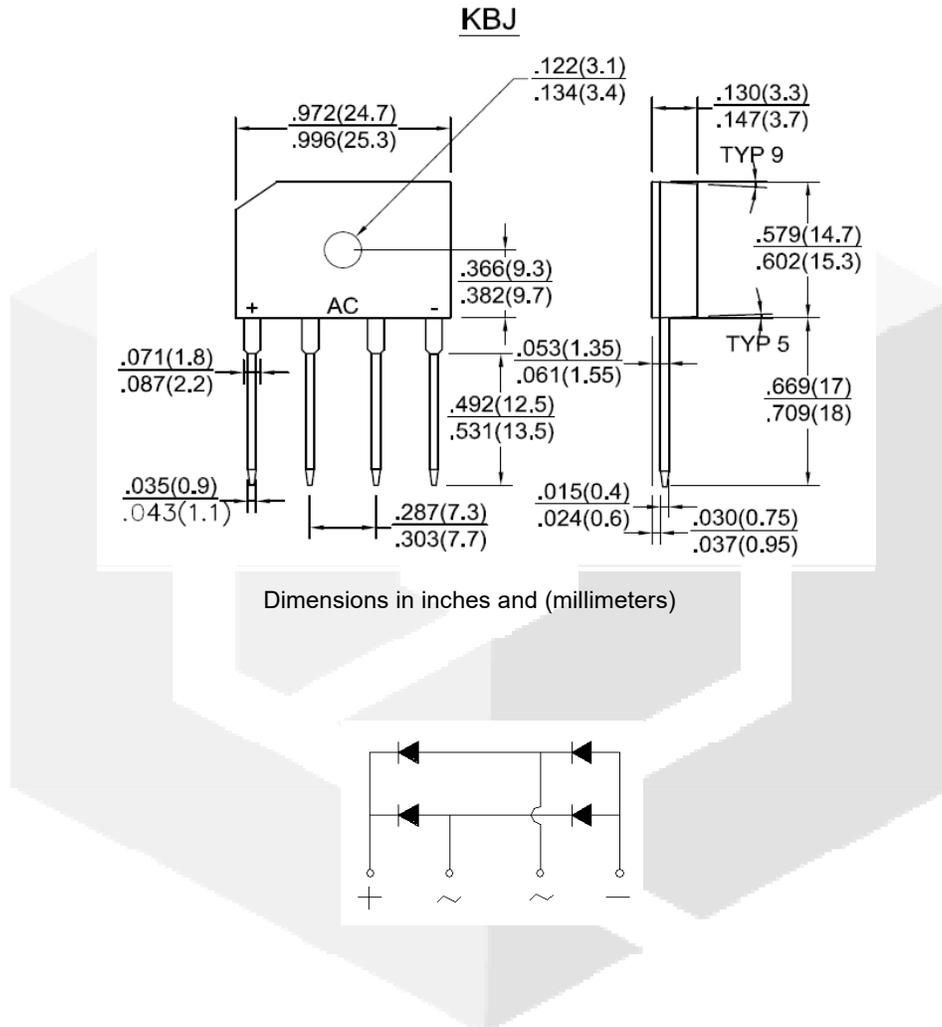
For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBJ406G	KBJ408G	KBJ410G	Unit
Maximum average forward rectified current	$I_O$	$T_c = 108\text{ °C}$	4	4	4	A
		$T_a = 25\text{ °C}$	2.3	2.3	2.3	
Peak forward surge current	$I_{FSM}$	8.3 ms single sine-wave	120	120	120	A
Maximum instantaneous forward voltage per leg	$V_F$	$I_F = 4\text{ A}$	1.1	1.1	1.1	V
Maximum reverse current at rated DC blocking voltage per leg	$I_R$	$T_a = 25\text{ °C}$	5	5	5	$\mu\text{A}$
		$T_a = 125\text{ °C}$	500	500	500	



**Package dimensions and terminal configuration**

Product is marked with part number and terminal configuration.



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