

## KBJ2506G thru KBJ2510G

 $I_0 = 25 A$ 

**KBJ** Package

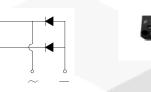
### Single Phase Glass Passivated Silicon Bridge Rectifier

#### Features

- · Ideal for printed circuit board
- · Low forward voltage drop, high current capability
- Plastic material has Underwriters Laboratory
- Flammability Classification 94V-0
- · Reliable, low cost construction utilizing molded
- Types from 600 V to 1000 V  $V_{\text{RRM}}$
- Not ESD Sensitive



V<sub>RRM</sub> = 600 V - 1000 V







#### Maximum ratings at Ta = 25 °C (ambient temperature), unless otherwise specified

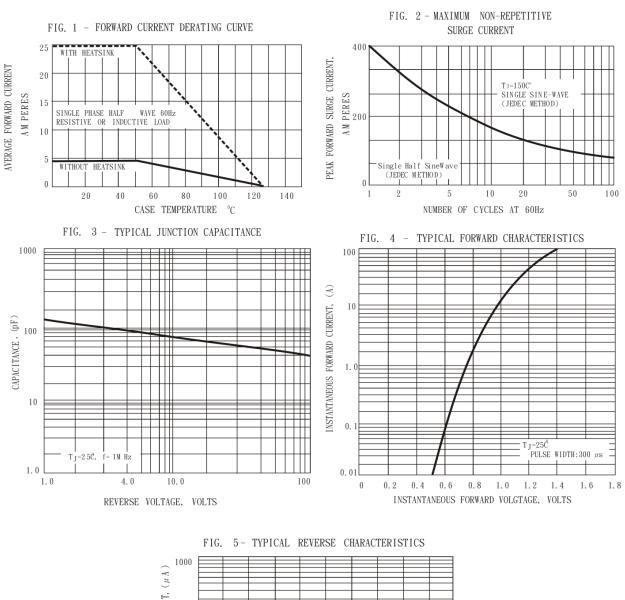
Parameter	Symbol	Conditions	KBJ2506G	KBJ2508G	KBJ2510G	Unit
Repetitive peak reverse v	oltage V <sub>RRM</sub>		600	800	1000	V
RMS reverse voltage	V <sub>RMS</sub>		420	560	700	V
DC blocking voltage	V <sub>DC</sub>		600	800	1000	V
Operating temperature	Tj		-55 to 125	-55 to 125	-55 to 125	°C
Storage temperature	T <sub>stg</sub>		-55 to 150	-55 to 150	-55 to 150	°C

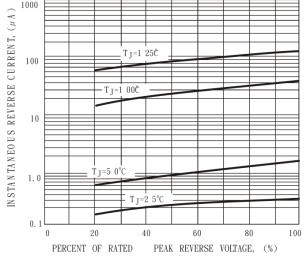
#### Electrical characteristics at Ta = 25 °C, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBJ2506G	KBJ2508G	KBJ2510G	Unit
Maximum average forward rectified current	Ι <sub>ο</sub>	T <sub>c</sub> = 110 °C	25	25	25	A
		T <sub>a</sub> = 25 °C	4.2	4.2	4.2	
Peak forward surge current	I <sub>FSM</sub>	8.3 ms single sine-wave	350	350	350	А
Maximum instantaneous forward voltage per leg	$V_{F}$	I <sub>F</sub> = 12.5 A	1.05	1.05	1.05	V
Maximum reverse current at	- I <sub>R</sub>	T <sub>a</sub> = 25 °C	10	10	10	μΑ
rated DC blocking voltage per leg		T <sub>a</sub> = 125 °C	500	500	500	

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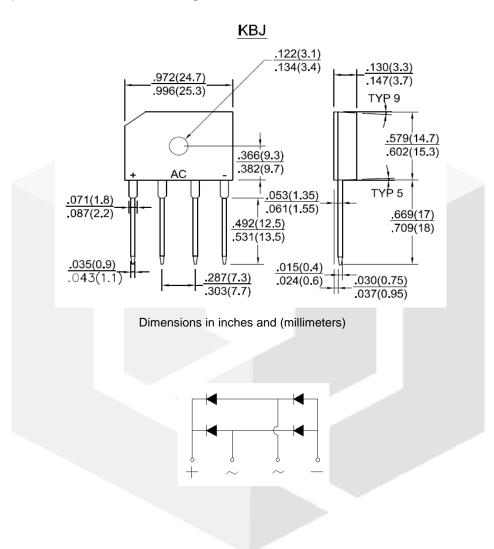


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### Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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KBJ2510G