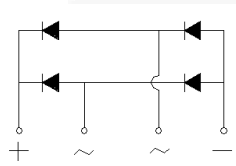


# Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 600\text{ V} - 1000\text{ V}$ 
 $I_O = 25\text{ A}$ 

## 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  $V_{RRM}$
- Not ESD Sensitive

**KBJ Package**


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

Parameter	Symbol	Conditions	KBJ2506G	KBJ2508G	KBJ2510G	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 125	-55 to 125	-55 to 125	°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	KBJ2506G	KBJ2508G	KBJ2510G	Unit
Maximum average forward rectified current	$I_O$	$T_c = 110\text{ °C}$	25	25	25	A
		$T_a = 25\text{ °C}$	4.2	4.2	4.2	
Peak forward surge current	$I_{FSM}$	8.3 ms single sine-wave	350	350	350	A
Maximum instantaneous forward voltage per leg	$V_F$	$I_F = 12.5\text{ A}$	1.05	1.05	1.05	V
Maximum reverse current at rated DC blocking voltage per leg	$I_R$	$T_a = 25\text{ °C}$	10	10	10	$\mu\text{A}$
		$T_a = 125\text{ °C}$	500	500	500	

FIG. 1 - FORWARD CURRENT DERATING CURVE

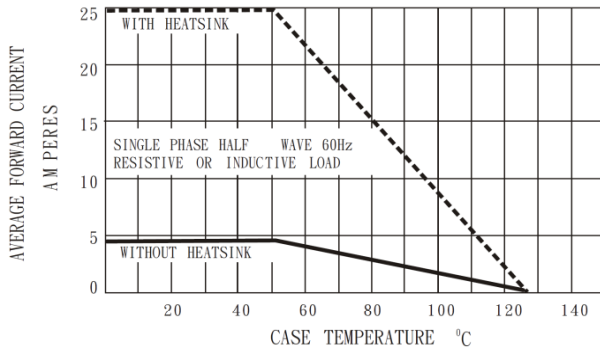


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

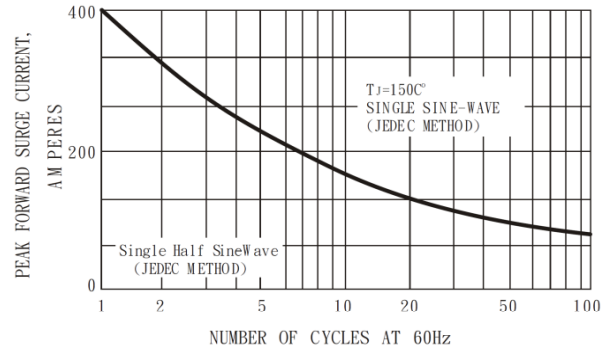


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

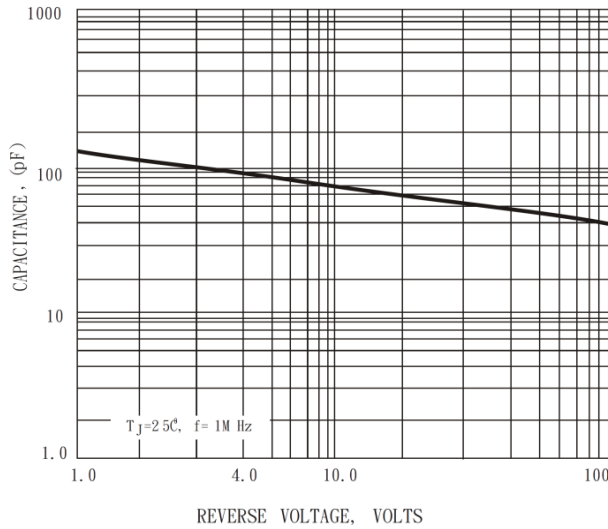


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

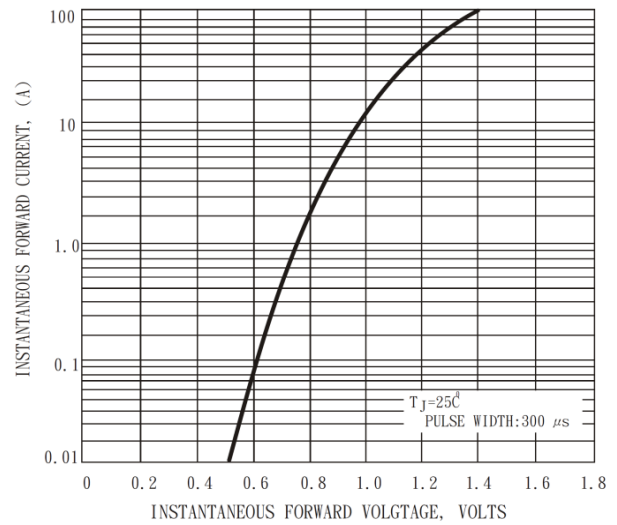
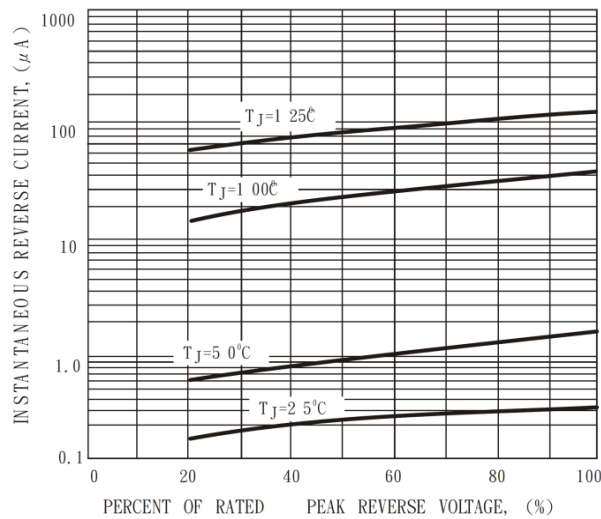


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS



**Package dimensions and terminal configuration**

Product is marked with part number and terminal configuration.

