

## 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

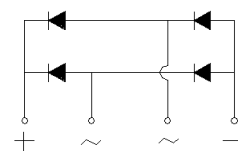
### Mechanical Data

Case: Molded plastic

Weight: 0.15 ounce, 4.0 grams

Mounting torque: 5 inch-lb max

KBJ Package



### Maximum ratings at $T_j = 25\text{ }^\circ\text{C}$ , unless otherwise specified

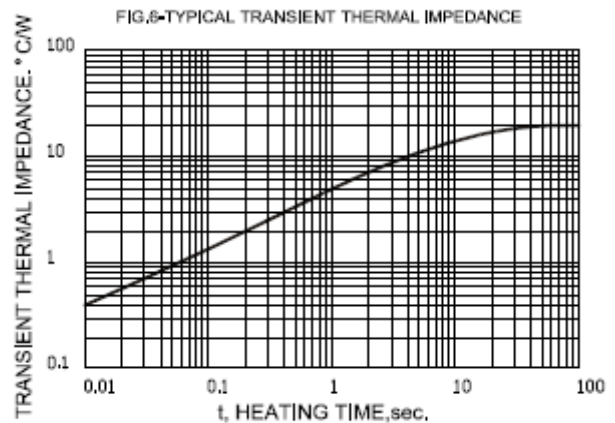
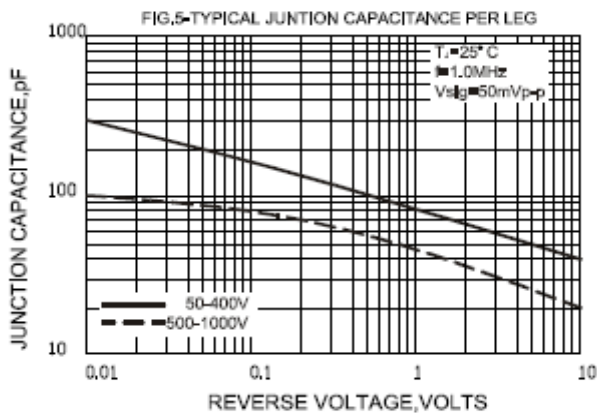
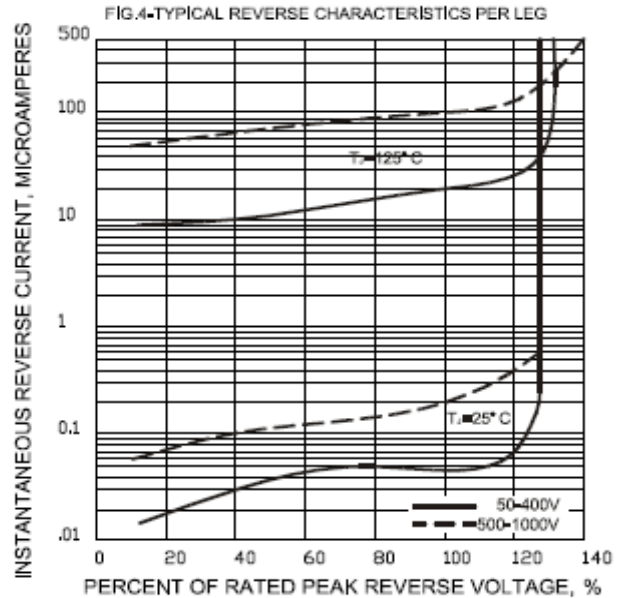
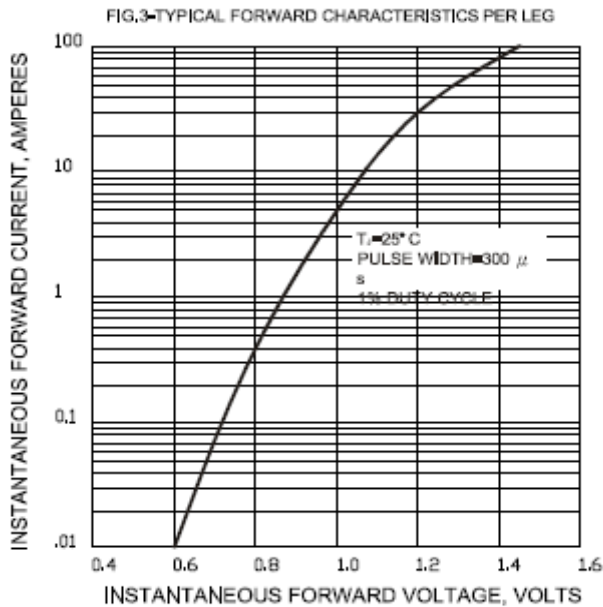
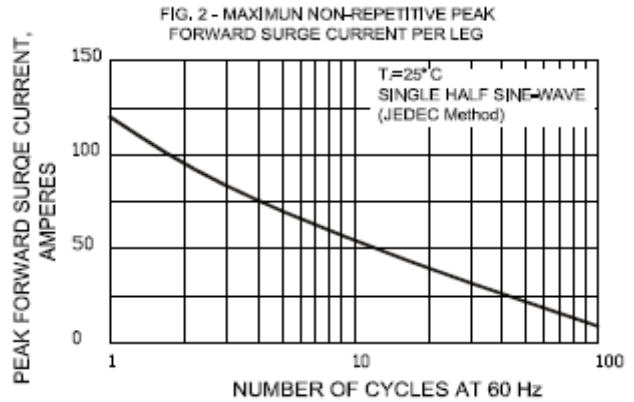
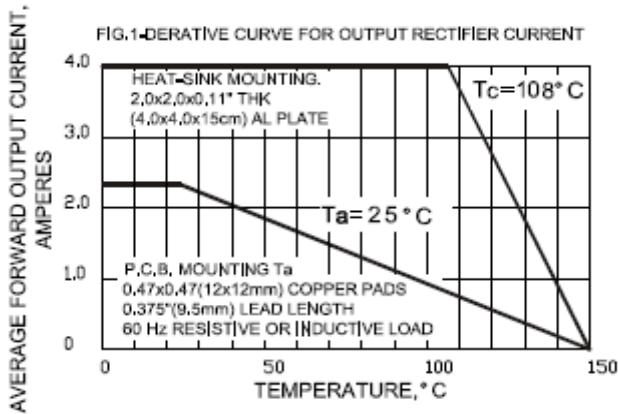
Parameter	Symbol	Conditions	KBJ4005G	KBJ401G	KBJ402G	KBJ404G	Unit
Repetitive peak reverse voltage	$V_{RRM}$		50	100	200	400	V
RMS reverse voltage	$V_{RMS}$		35	70	140	280	V
DC blocking voltage	$V_{DC}$		50	100	200	400	V
Operating temperature	$T_j$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

### Electrical characteristics at $T_j = 25\text{ }^\circ\text{C}$ , unless otherwise specified

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

For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBJ4005G	KBJ401G	KBJ402G	KBJ404G	Unit
Maximum average forward rectified current	$I_o$	$T_c = 108\text{ }^\circ\text{C}$	4	4	4	4	A
		$T_a = 25\text{ }^\circ\text{C}$	2.3	2.3	2.3	2.3	
Peak forward surge current	$I_{FSM}$	8.3 ms single sine-wave	120	120	120	120	A
Maximum instantaneous forward voltage per leg	$V_F$	$I_F = 4\text{ A}$	1.1	1.1	1.1	1.1	V
Maximum reverse current at rated DC blocking voltage per leg	$I_R$	$T_a = 25\text{ }^\circ\text{C}$	5	5	5	5	$\mu\text{A}$
		$T_a = 125\text{ }^\circ\text{C}$	500	500	500	500	





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