



America Semiconductor

Silicon Bridge Rectifier

KBJ406G thru KBJ410G

$V_{RRM} = 50\text{ V} - 1000\text{ V}$

$I_F = 4\text{ A}$

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Types up to 1000 V V_{RRM}
- Ideal for printed circuit board
- Surge overload rating to 120 Amperes peak
- High temperature soldering guaranteed: 250°C/ 10 seconds
- Reliable, low cost construction

Mechanical Data

Case: Molded plastic

Weight: 0.15 oz, 4 g

Mounting torque: 5 inch-lb max

KBJ Package



Maximum ratings, at $T_j = 25\text{ °C}$, 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
Continuous forward current	I_F	$T_C \leq 115\text{ °C}$	4	4	4	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$, $t_p = 8.3\text{ ms}$	120	120	120	A
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 $T_j = 25\text{ °C}$, unless otherwise specified

Parameter	Symbol	Conditions	KBJ406G	KBJ408G	KBJ410G	Unit
Diode forward voltage	V_F	$I_F = 4\text{ A}$, $T_j = 25\text{ °C}$	1	1	1	V
Reverse current	I_R	$V_R = 50\text{ V}$, $T_j = 25\text{ °C}$	5	5	5	μA
		$V_R = 50\text{ V}$, $T_j = 125\text{ °C}$	500	500	500	



