

Silicon Bridge Rectifier

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

$I_F = 4\text{ A}$

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

KBJ Package

Mechanical Data

Case: Molded plastic

Weight: 0.15 oz, 4 g

Mounting torque: 5 inch-lb max



Datasheet.Live

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 | |

