

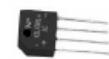
## Silicon Bridge Rectifier

**V<sub>RRM</sub> = 50 V - 1000 V**  
**I<sub>F</sub> = 2 A**

### Features

- Types up to 1000 V V<sub>RRM</sub>
- Ideal for printed circuit board
- Built-in printed circuit board stand-offs
- High temperature soldering guaranteed 265°C/ 10 seconds
- High case dielectric strength
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

**KBP Package**



### Mechanical Data

Case: Reliable low cost construction

Weight: 0.065 oz, 2.2 g

Mounting position: Any

Terminals: Plated leads, solderable per MIL-STD-202, Method 208

### Maximum ratings, at T<sub>j</sub> = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBP206	KBP208	KBP210	Unit
Repetitive peak reverse voltage	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
Continuous forward current	I <sub>F</sub>	T <sub>C</sub> ≤ 50 °C	2	2	2	A
Surge non-repetitive forward current, Half Sine Wave	I <sub>F,SM</sub>	T <sub>C</sub> = 25 °C, t <sub>p</sub> = 8.3 ms	60	60	60	A
Operating temperature	T <sub>j</sub>		-50 to 150	-50 to 150	-50 to 150	°C
Storage temperature	T <sub>stg</sub>		-50 to 150	-50 to 150	-50 to 150	°C

### Electrical characteristics, at T<sub>j</sub> = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	KBP206	KBP208	KBP210	Unit
Diode forward voltage	V <sub>F</sub>	I <sub>F</sub> = 2 A, T <sub>j</sub> = 25 °C	1.1	1.1	1.1	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 50 V, T <sub>j</sub> = 25 °C V <sub>R</sub> = 50 V, T <sub>j</sub> = 100 °C	10 200	10 200	10 200	µA

### Thermal characteristics

Thermal resistance, junction - case	R <sub>thJL</sub>	25.0	25.0	25.0	°C/W
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