

## Silicon Bridge Rectifier

**V<sub>RRM</sub> = 50 V - 1000 V**  
**I<sub>F</sub> = 15 A**

### Features

- High efficiency
- Types up to 1000 V V<sub>RRM</sub>
- Silicon junction
- Metal case

**KBPC-T/W Package**

### Mechanical Data

Case: Mounted in the bridge encapsulation



Mounting position: Hole for #10 screw

Polarity: Marked on case

**Maximum ratings, at T<sub>j</sub> = 25 °C, unless otherwise specified (KBPCXXXXT uses KBPC-T package while KBPCXXXXW uses KBPC-W package)**

Parameter	Symbol	Conditions	KBPC15005T/W	KBPC1501T/W	KBPC1502T/W	KBPC1504T/W	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		50	100	200	400	V
RMS reverse voltage	V <sub>RMS</sub>		35	70	140	280	V
DC blocking voltage	V <sub>DC</sub>		50	100	200	400	V
Continuous forward current	I <sub>F</sub>	T <sub>C</sub> ≤ 55 °C	15	15	15	15	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	300	300	300	300	A
Operating temperature	T <sub>j</sub>		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T <sub>stg</sub>		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	KBPC15005T/W	KBPC1501T/W	KBPC1502T/W	KBPC1504T/W	Unit
Diode forward voltage	V <sub>F</sub>	I <sub>F</sub> = 7.5 A, T <sub>j</sub> = 25 °C	1.1	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	5	5	5	5	μA
		V <sub>R</sub> = 50 V, T <sub>j</sub> = 100 °C	500	500	500	500	

### Thermal characteristics

Thermal resistance, junction - case	R <sub>thJC</sub>		2.3	2.3	2.3	2.3	°C/W
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