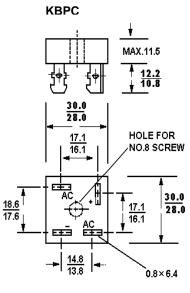
# KBPC15005~KBPC1510

## HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS

### Features

- Surge overload 300 Amperes peak
- Low power loss, high efficiency
- Low reverse leakage current.



Dimensions in mm

### **Absolute Maximum Ratings and Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. resistive or inductive load 60 Hz,. For capacitive load current by 20%.

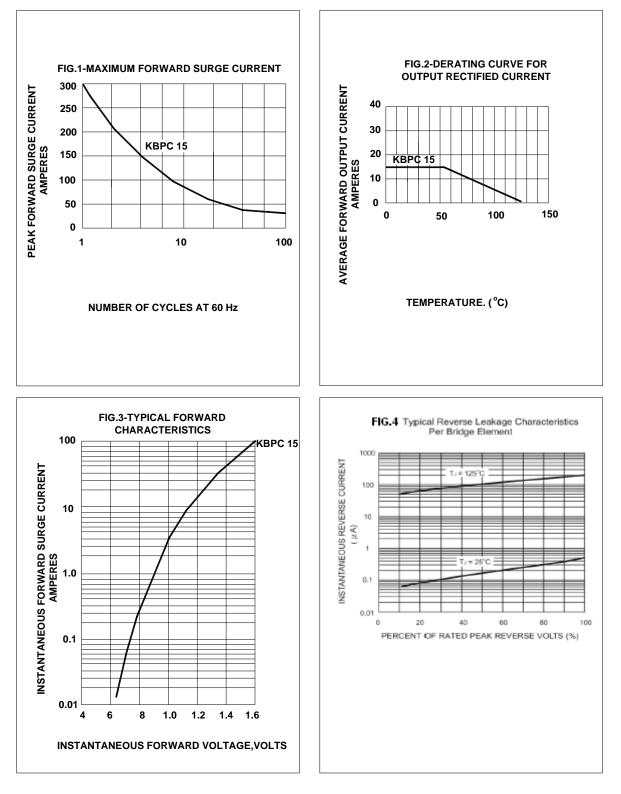
Characteristic	KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_c = 55$ °C	15							А
Peak Forward Surge Current, 8.3ms single half Sine-wave superimposed on rated load (JEDEC)	300							А
Maximum Forward Voltage at 7.5A DC and $25^\circ\!\mathrm{C}$	1.2							V
Maximum Reverse Current at $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $T_A = 125^{\circ}C$	10 1000							uA
Typical Junction Capacitance (Note 1)	300							pF
Typical Thermal Resistance (Note 2)	2.3							°C <b>/W</b>
Operating Temperature Range T <sub>C</sub>	-55 to +125							°C
Storage Temperature Range T <sub>A</sub>	-55 to +150							°C

Notes: 1. Measured at 1MHz and applied reverse voltage of 4VDC.

2. Thermal resistance from junction to case per leg.



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#### **RATINGS AND CHARACTERISTIC CURVES**

