

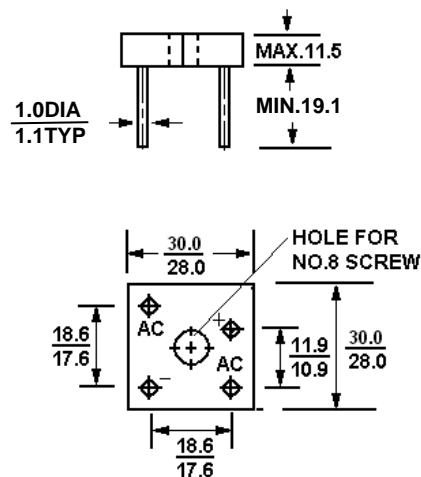
KBPC15005W THRU KBPC1510W

HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS

Features

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

KBPCW



Dimensions in mm

Absolute Maximum Ratings and Characteristics

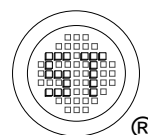
Rating at 25°C ambient temperature unless otherwise specified. resistive or inductive load 60 Hz,

For capacitive load current by 20%.

Characteristic	KBPC 15005W	KBPC 1501W	KBPC 1502W	KBPC 1504W	KBPC 1506W	KBPC 1508W	KBPC 1510W	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 $T_c = 55^\circ\text{C}$	15							A
Peak Forward Surge Current, 8.3ms single half Sine-wave superimposed on rated load (JEDEC)	300							A
Maximum Forward Voltage at 7.5A DC and 25°C	1.2							V
Maximum Reverse Current at $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 125^\circ\text{C}$	10 1000							μA
Typical Junction Capacitance ¹⁾	300							pF
Typical Thermal Resistance ²⁾	2.3							°C/W
Operating Temperature Range T_c	-55 to +125							°C
Storage Temperature Range T_a	-55 to +150							°C

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

²⁾ Thermal resistance from Junction to case per leg.



RATINGS AND CHARACTERISTIC CURVES

