

KBPC25005W~KBPC2510W

HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS

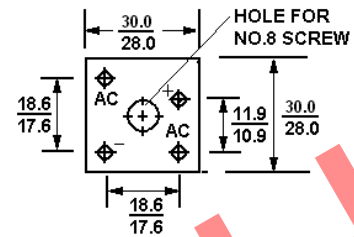
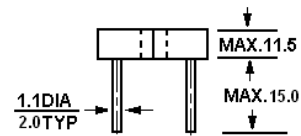
REVERSE VOLTAGE: 50V to 1000V

FORWARD CURRENT: 25A

KBPCW

Features

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



Dimensions in mm

Absolute Maximum Ratings and Characteristics

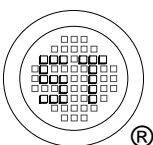
Rating at 25°C ambient temperature unless otherwise specified. resistive or inductive load 60 Hz,.

For capacitive load current by 20%.

Characteristic	KBPC 25005W	KBPC 2501W	KBPC 2502W	KBPC 2504W	KBPC 2506W	KBPC 2508W	KBPC 2510W	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 $T_C = 55^\circ\text{C}$	25							A
Peak Forward Surge Current, 8.3ms single half Sine-wave superimposed on rated load	300							A
Maximum Forward Voltage at 12.5A 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 (Note 1)	300							pF
Typical Thermal Resistance (Note 2)	1.9							$^\circ\text{C}/\text{W}$
Operating Temperature Range T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature Range T_{Stg}	-55 to +150							$^\circ\text{C}$

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4.0VDC.

2. Thermal resistance from junction to case per leg.



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RATINGS AND CHARACTERISTIC CURVES

