KBPC25005~KBPC2510

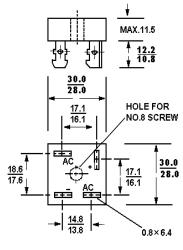
HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE: 50V to 1000V

FORWARD CURRENT: 25A

Features

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



KBPC

Dimensions in mm

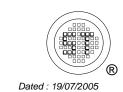
Absolute Maximum Ratings and Characteristics

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

Characteristic	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Units
	25005	2501	2502	2504	2506	2508	2510	
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	25							А
Peak Forward Surge Current, 8.3ms single half Sine-wave superimposed on rated load	300							А
Maximum Forward Voltage at 12.5A DC and 25℃	1.2							V
Maximum Reverse Current at T _A = 25°C	10							uA
at Rated DC Blocking Voltage T _A = 125°C	1000							
Typical Junction Capacitance (Note 1)	300							pF
Typical Thermal Resistance (Note 2)	1.9							°C/W
Operating Temperature Range T _J	-55 to +125							°C
Storage Temperature Range T _{Stg}	-55 to +150							°C

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

2. Thermal resistance from junction t case per leg.



RATINGS AND CHARACTERISTIC CURVES

