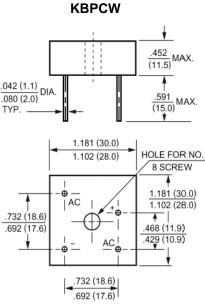
KBPC50005W THRU KBPC5010W

HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 50 AMPERES

Features

- Electrically isolated metal case for maximum heat dissipation
- Surge overload ratings to 500 A
- Low power loss, high efficiency
- Low reverse leakage current
- Case to terminal isolation voltage 2500 V
- UL recognized file # E-216968



Mechanical data

- Metal or molded plastic with heatsink integrally mounted in the bridge encapsulation
- Mounting Position: Any

Dimensions in inches and (mm)

Absolute Maximum Ratings and Characteristics

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

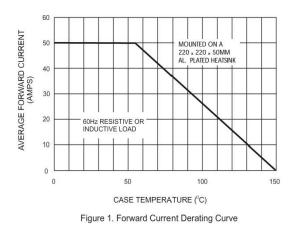
Parameter	Symbols	KBPC 50005W	KBPC 5001W	KBPC 5002W	KBPC 5004W	KBPC 5006W	KBPC 5008W	KBPC 5010W	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_c = 55 °C	I _(AV)	50							А
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I _{FSM}	400							А
Maximum Forward Voltage at 25 A DC and 25 $^{\circ}\text{C}$	V _F	1.2							V
Maximum Reverse Current at $T_A = 25 ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 125 ^{\circ}C$	I _R	10 1000							μA
Typical Junction Capacitance ¹⁾	CJ	300							pF
Typical Thermal Resistance ²⁾	R _{θJC}	2.6							°C/W
Operating and Storage Temperature Range	T_{J}, T_{Stg}	-55 to +150							°C

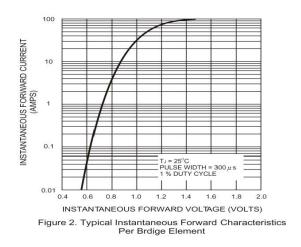
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.

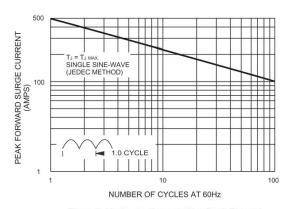
²⁾ Thermal resistance from junction to case per leg.

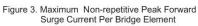


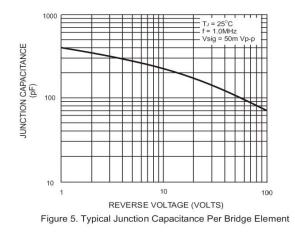
KBPC50005W THRU KBPC5010W

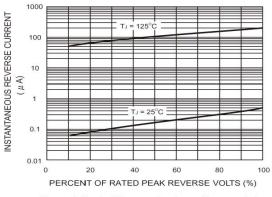




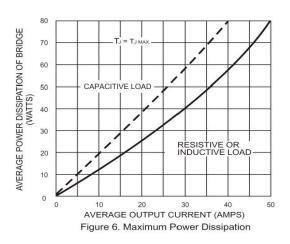














Dated : 15/02/2006 H