KBPC350X SERIES HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIER بمر 品 规 确 格 认 书

KBPC35005(W) THRU KBPC3510(W) *HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIER*



3

REVERSE VOLTAGE: FORWARD CURRENT:

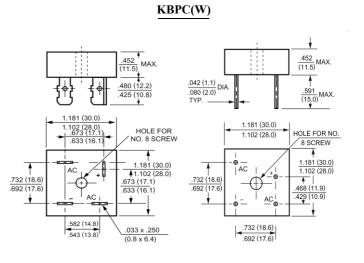
50 to 1000 VOLTS 35.0 AMPERE

FEATURES

- \cdot Electrically Isolated Metal Case for
- Maximum Heat Dissipation
- \cdot Surge Overload Ratings to 500 Amperes
- · Low power loss, high efficiency
- · Low reverse leakage current
- · Case to terminal isolation voltage 2500V
- · UL Recognized File # E-216968

MECHANICAL DATA

Case: Metal or molded plastic with heatsink integrally mounted in the bridge encapsulation Suffix letter "P" added to indicate plastic Terminals: Either plated 0.25" (6.35mm) Fasten lugs or plated copper leads 0.040" (1.02mm) diameter. Suffix letter "W" added to indicate leads Mounting position: Any Weight: 1.00unce, 30.0gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBPC35005	KBPC3501	KBPC3502	KBPC3504	KBPC3506	KBPC3508	KBPC3510	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward	T	I 25.0							
Rectified Current at T _C =55	I _(AV)	35.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 400							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V	1.1							Volts
at 17.5A DC and 25	V _F								
Maximum Reverse Current at T _A =25	T	10.0 1000							uAmp
at Rated DC Blocking Voltage T _A =125	I _R								
Typical Junction Capacitance (Note 1)	CJ	300							pF
Typical Thermal Resistance (Note 2)	R _{0JC}	1.4							/W
Operating and Storage Temperature Range	T _J , Tstg				-55 to +150	0			

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal resistance from junction to case per leg

(H3) 康 叱 電 HORNBY ELECTRONIC

3

RATINGS AND CHARACTERISTIC CURVES

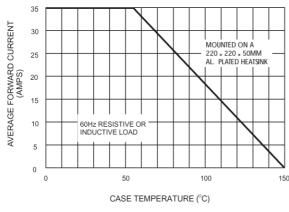


Figure 1. Forward Current Derating Curve

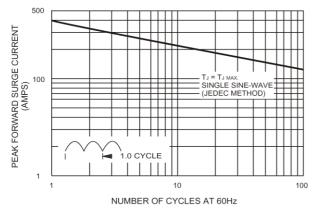


Figure 3. Maximum Non-repetitive Peak Forward Surge Current Per Bridge Element

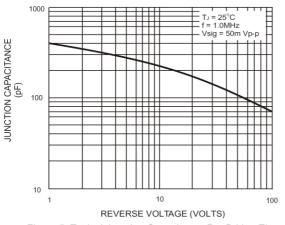


Figure 5. Typical Junction Capacitance Per Bridge Element

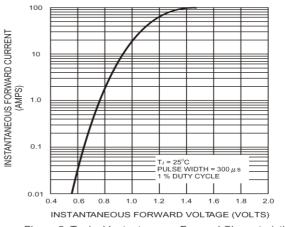


Figure 2. Typical Instantaneous Forward Characteristics Per Brdige Element

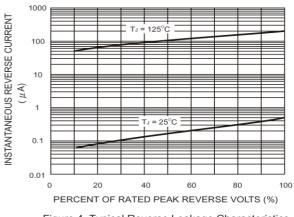


Figure 4. Typical Reverse Leakage Characteristics Per Bridge Element

