KBPC10005W~KBPC1010W

SINGLE-PHASE SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE: 50 V to 1000 V

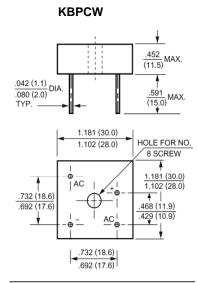
FORWARD CURRENT: 10 A

Features

- · Reliable low cost construction
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

Mechanical Data

· Case: KBPCW



Dimensions in inches and (millimeters)

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%

Symbol	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Units
V_{RRM}	50	100	200	400	600	800	1000	V
V _{RMS}	35	70	140	280	420	560	700	V
V _{DC}	50	100	200	400	600	800	1000	V
I _(AV)	10							Α
I _{FSM}	200						Α	
V_{F}	1.2						V	
I _R	10 500						μΑ	
CJ	200						pF	
$R_{\theta JA}$	25						°C/W	
$R_{\theta JC}$	5						°C/W	
T_J,T_S	- 55 to + 125							°C
	$\begin{array}{c} V_{RMS} \\ V_{DC} \\ \\ I_{(AV)} \\ \\ I_{FSM} \\ \\ V_{F} \\ \\ I_{R} \\ \\ C_{J} \\ \\ R_{\theta JA} \\ \\ R_{\theta JC} \\ \end{array}$	Symbol 10005W V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _(AV) I _{FSM} V _F I _R C _J R _{θJA} R _{θJC} R _{θJC}	Symbol 10005W 1001W V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _(AV) I _{FSM} V _F I _R C _J R _{θJA} R _{θJC} R _{θJC}	Symbol 10005W 1001W 1002W V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _(AV) I _{FSM} V _F I _R C _J R _{θJA} R _{θJC}	Symbol 10005W 1001W 1002W 1004W V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _(AV) 10 200 V _F 1.2 10 I _R 10 500 C _J 200 200 R _{θJA} 25 5	Symbol 10005W 1001W 1002W 1004W 1006W V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _(AV) 10 200 400 600 V _F 1.2 10 500 500 C _J 200 200 200 R _{θJA} 25 R _{θJC} 5 5 5 5	Symbol 10005W 1001W 1002W 1004W 1006W 1008W V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _(AV) 10 200 400 600 800 V _F 1.2 10 500 500 500 600 800 C _J 200 200 200 800 800 800 800 800 800 R _{BJA} 200 200 800	Symbol 10005W 1001W 1002W 1004W 1006W 1008W 1010W V _{RRM} 50 100 200 400 600 800 1000 V _{RMS} 35 70 140 280 420 560 700 V _{DC} 50 100 200 400 600 800 1000 I _(AV) 10 200 400 600 800 1000 V _F 1.2 10 500 500 500 700 C _J 200 200 200 700

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











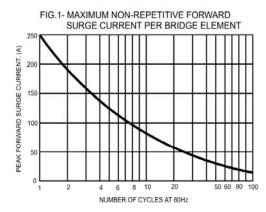


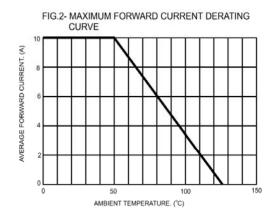
Dated: 16/07/2006 H

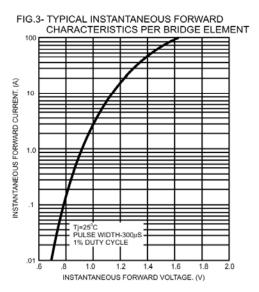
 $^{^{2)}}$ Unit mounted on 8.6 X 8.6 X 0.24" thick (22 X 22 X 0.6 cm) Al, Plate.

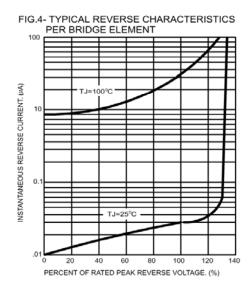
³⁾ Unit mounted on P.C.B. at 0.375" (9.5 mm) lead length with 0.5 x 0.5" (12 x 12 mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES





















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