

## **KBPC15005W THRU KBPC1510W**

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RoHS

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## Reverse Voltage - 50 to 1000 Volts Silicon Bridge Rectifiers Forward Current - 15 Amperes **KBPC-W** Features Low forward voltage drop 442 (11.23) • Electrically isolated base -2000 Volts 424 (10,77) High surge forward current capability • Materials used carries U/L recognition 1.200 (30.5) Mln. **Mechanical Data** .042 (1.07) Polarity: Symbol marked on body .038 (0.97) Mounting position: Any Note: Products with logo Hole for are made by HY Electronic (Cayman) Limited. No.8 Screw 1,133 (28,8) 193"(4.9) Dlam 1.114 (28.3) Applications • General purpose use in AC/DC bridge full wave rectification, 1.133 (28.8) for power supply, industrial automation applications, etc. 1,114 (28,3) +-4 732 (18.6) +.693 (17.6) 469 (11.9) 429 (10.9) 732 (18.6) .693 (17.6) Package Outline Dimensions in Inches (Millimeters) **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

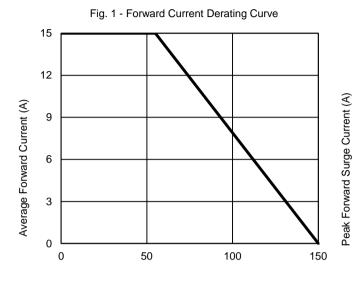
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Symbol	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
	15005W	1501W	1502W	1504W	1506W	1508W	1510W	
Vrrm	50	100	200	400	600	800	1000	V
Vrms	35	70	140	280	420	560	700	V
l(AV)	15							А
Гом	200							А
IF SIM	500							~
l <sup>2</sup> t	373.5						A <sup>2</sup> s	
Vf	1.1						V	
In	10							μA
IK				10			μΑ	
TJ	-55 to +150							°C
Тѕтс	-55 to +150							°C
	VRRM VRMS I(AV) IFSM I <sup>2</sup> t VF IR IR	Symbol  15005W    VRRM  50    VRMS  35    I(AV)  -    IFSM  -    I <sup>2</sup> t  -    VF  -    IR  -	Symbol  15005W  1501W    VRRM  50  100    VRMS  35  70    I(AV)	Symbol  15005W  1501W  1502W    VRRM  50  100  200    VRMS  35  70  140    I(AV)	Symbol  15005W  1501W  1502W  1504W    VRRM  50  100  200  400    VRMS  35  70  140  280    I(AV)	$\begin{tabular}{ c c c c c } \hline Symbol & 15005W & 1501W & 1502W & 1504W & 1506W \\ \hline VRM & 50 & 100 & 200 & 400 & 600 \\ \hline VRM & 35 & 70 & 140 & 280 & 420 \\ \hline I(AV) & $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	$\begin{tabular}{ c c c c c c } \hline Symbol & 15005W & 1501W & 1502W & 1504W & 1506W & 1508W \\ \hline VRM & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline VRMS & 35 & 70 & 140 & 280 & 420 & 560 \\ \hline I(AV) & & $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	Symbol  15005W  1501W  1502W  1504W  1506W  1508W  1510W    VRM  50  100  200  400  600  800  1000    VRMS  35  70  140  280  420  560  700    I(AV)    550  15  560  700    I(AV)    300  560  700    I(AV)    300  560  700    IFSM    373.5  5  5  5    VF    11.1  10  10  10    IR    10  10  10  10



100



Case Temperature (℃)

TJ=150° C

- TJ=125°C

TJ=100° C

TJ=75°C

TJ=25° C

60

Percent of Rated Peak Reverse Voltage (%)

80

100

40

1000

100

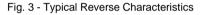
10

1

0.1

20

Instantaneous Reverse Current (uA)



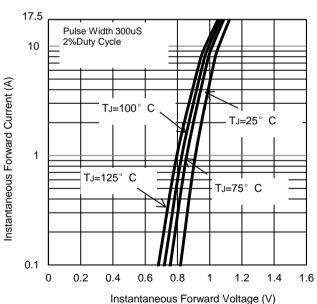


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Number of Cycles at 60Hz

Fig. 2 - Maximum Non-Repetitive Surge Current

-8.3mS Single Half-Sine-Wave (JEDEC METOD)



350

300

250

200

150

100

50

0

1

The curve above is for reference only.

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