



**THE DATASHEET OF  
KBPC1010W-G**

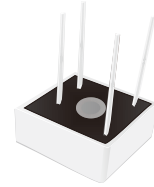


## KBPC10005W-G Thru. KBPC5010W-G Series

Reverse Voltage: 50 to 1000V

Forward Current: 10/15/25/35/50A

RoHS Device

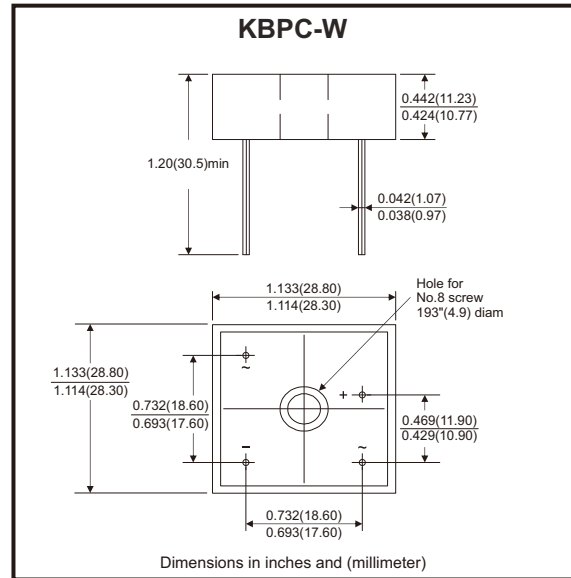


### Features

- Surge overload -240~500 Amperes peak.
- Low forward voltage drop.
- Electrically isolated base -2000 Volts.
- Materials used carries UL recognition.
- UL recognized file # E349301

### Mechanical Data

- Polarity: As marked on body.
- Mounting position: Any.
- Weight: 25.95 grams (approx.).



### 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%

Parameter	Symbol	KBPC_W-G	KBPC_W-G	KBPC_W-G	KBPC_W-G	KBPC_W-G	KBPC_W-G	Unit	
		10005	1001	1002	1004	1006	1008		1010
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V

Parameter	Symbol	KBPC10	KBPC15	KBPC25	KBPC35	KBPC50	Unit
Maximum average forward rectified output current @ T <sub>c</sub> =55°C	I <sub>(AV)</sub>	10	15	25	35	50	A
Peak forward surge current , 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	240	300	400	400	500	A
Maximum forward voltage drop per element at 5.0/7.5/12.5/17.5/25.0A peak	V <sub>F</sub>	1.1					V
Maximum reverse current at rated DC blocking voltage per element @ T <sub>J</sub> =25°C	I <sub>R</sub>	10.0					μA
Operating temperature range	T <sub>J</sub>	-55 to +150					°C
Storage temperature range	T <sub>STG</sub>	-55 to +150					°C

Company reserves the right to improve product design , functions and reliability without notice.

REV:D

## Rating and Characteristics Curves (KBPC10005W-G Thru. KBPC5010W-G Series)

Fig.1 - Max. Forward Surge Current

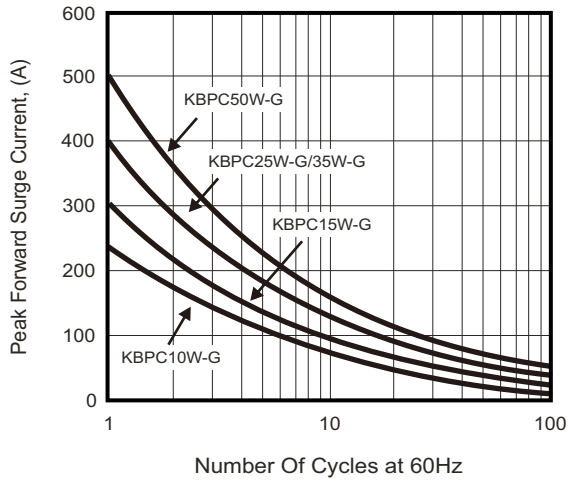


Fig.2 - Derating Curve Output Rectified Current

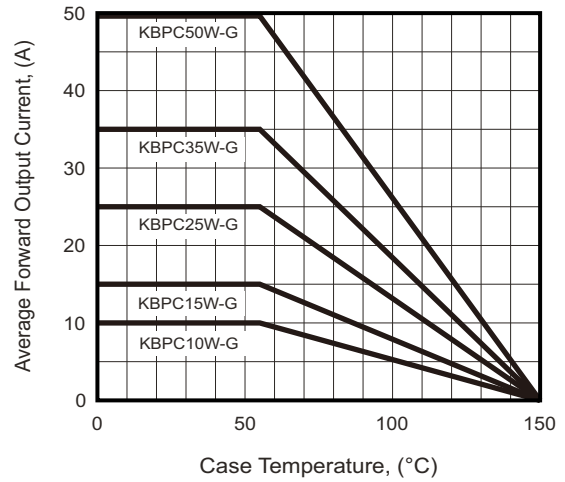


Fig.3 - Typical Forward Characteristics

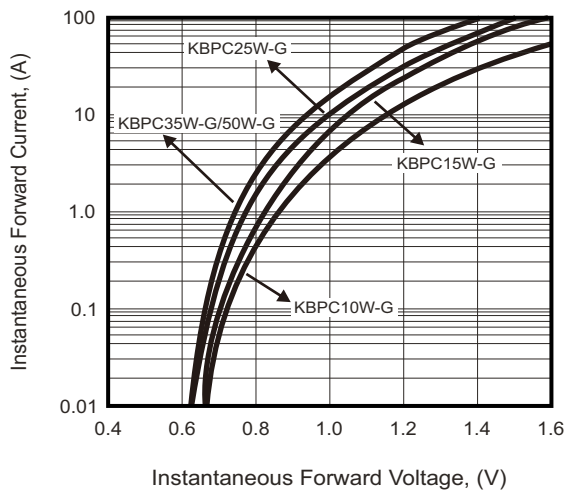
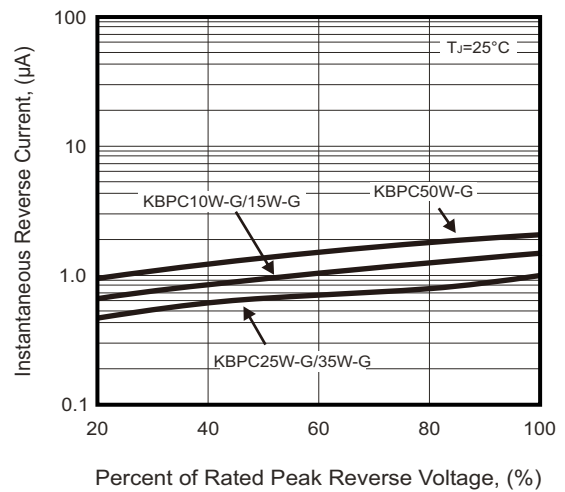
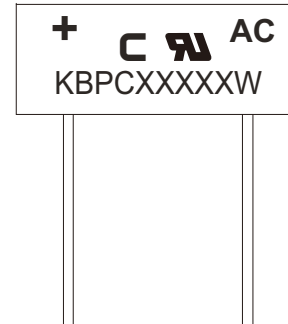


Fig.4 - Typical Reverse Characteristics



## Marking Code

Part Number	Marking code
KBPC10005W-G	KBPC10005W
KBPC15005W-G	KBPC15005W
KBPC25005W-G	KBPC25005W
KBPC35005W-G	KBPC35005W
KBPC50005W-G	KBPC50005W
KBPC1001W-G	KBPC1001W
KBPC1501W-G	KBPC1501W
KBPC2501W-G	KBPC2501W
KBPC3501W-G	KBPC3501W
KBPC5001W-G	KBPC5001W
KBPC1002W-G	KBPC1002W
KBPC1502W-G	KBPC1502W
KBPC2502W-G	KBPC2502W
KBPC3502W-G	KBPC3502W
KBPC5002W-G	KBPC5002W
KBPC1004W-G	KBPC1004W
KBPC1504W-G	KBPC1504W
KBPC2504W-G	KBPC2504W
KBPC3504W-G	KBPC3504W
KBPC5004W-G	KBPC5004W
KBPC1006W-G	KBPC1006W
KBPC1506W-G	KBPC1506W
KBPC2506W-G	KBPC2506W
KBPC3506W-G	KBPC3506W
KBPC5006W-G	KBPC5006W
KBPC1008W-G	KBPC1008W
KBPC1508W-G	KBPC1508W
KBPC2508W-G	KBPC2508W
KBPC3508W-G	KBPC3508W
KBPC5008W-G	KBPC5008W
KBPC1010W-G	KBPC1010W
KBPC1510W-G	KBPC1510W
KBPC2510W-G	KBPC2510W
KBPC3510W-G	KBPC3510W
KBPC5010W-G	KBPC5010W



**XXXXX / XXXX = Product type marking code**  
**C = Comchip Logo**

## Standard Packaging

Case Type	TRAY PACK	
	TRAY (pcs)	CARTON (pcs)
KBPC-W	100	500

## Looking for pricing, stock, or lifecycle information?

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- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management