



**THE DATASHEET OF  
KBPC1004-G**

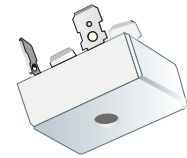


## KBPC10005-G Thru. KBPC5010-G Series

Reverse Voltage: 50 to 1000V

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

RoHS Device

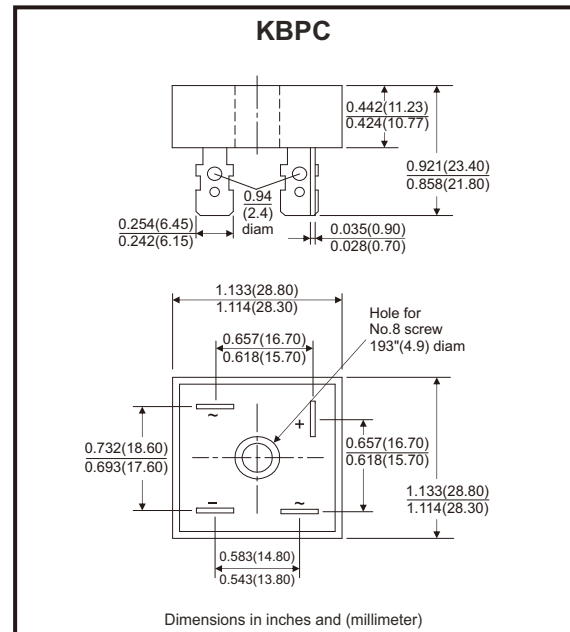


### Features

- 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: 28.82 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-G	KBPC-G	KBPC-G	KBPC-G	KBPC-G	KBPC-G	KBPC-G	Unit
		10005	1001	1002	1004	1006	1008	1010	
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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

Parameter	Symbol	KBPC10	KBPC15	KBPC25	KBPC35	KBPC50	Unit
Maximum average forward rectified output current @ $T_c=55^\circ C$	$I_{AV}$	10	15	25	35	50	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	240	300	400	400	500	A
Maximum forward voltage drop per element at 5.0/7.5/12.5/17.5/25.0A peak	$V_F$	1.1					V
Maximum reverse current at rated DC blocking voltage per element @ $T_J=25^\circ C$	$I_R$	10.0					$\mu A$
Operating temperature range	$T_J$	-55 to +150					$^\circ C$
Storage temperature range	$T_{STG}$	-55 to +150					$^\circ C$

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

REV:C

## Rating and Characteristics Curves (KBPC10005-G Thru. KBPC5010-G Series)

Fig.1 - Max. Forward Surge Current

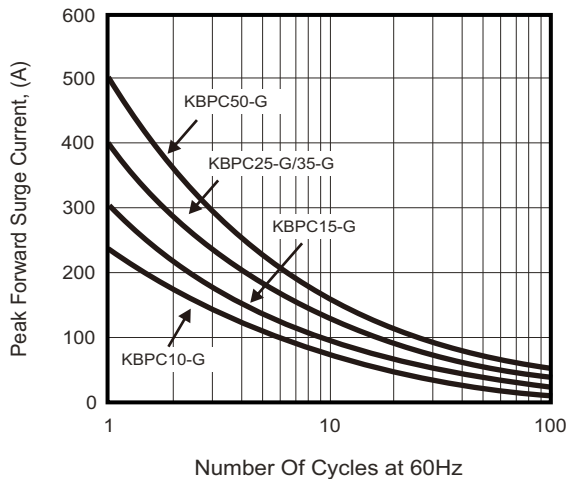


Fig.2 - Derating Curve Output Rectified Current

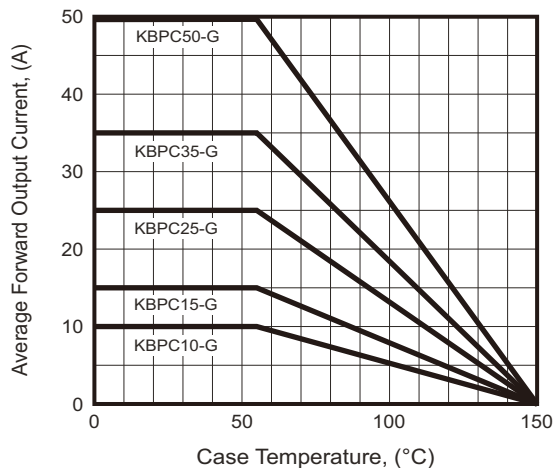


Fig.3 - Typical Forward Characteristics

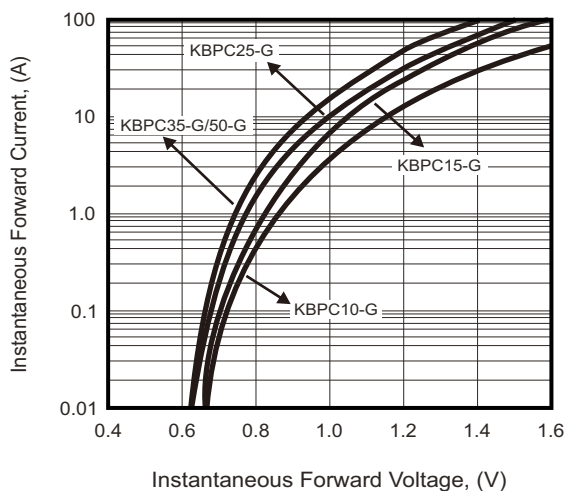
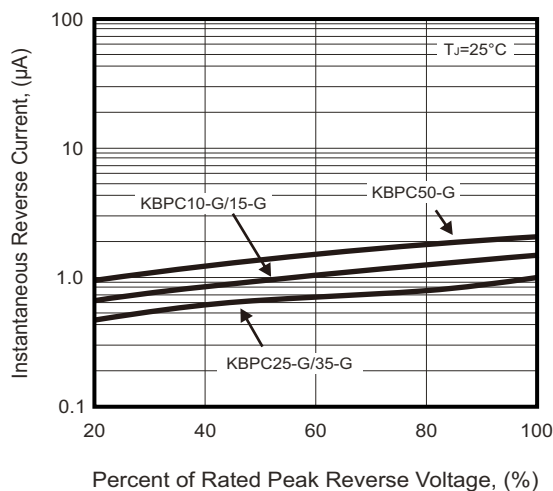
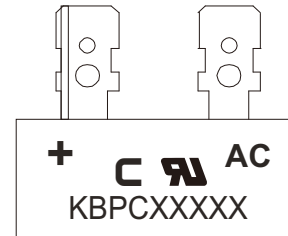


Fig.4 - Typical Reverse Characteristics



## Marking Code

Part Number	Marking code
KBPC10005-G	KBPC10005
KBPC15005-G	KBPC15005
KBPC25005-G	KBPC25005
KBPC35005-G	KBPC35005
KBPC50005-G	KBPC50005
KBPC1001-G	KBPC1001
KBPC1501-G	KBPC1501
KBPC2501-G	KBPC2501
KBPC3501-G	KBPC3501
KBPC5001-G	KBPC5001
KBPC1002-G	KBPC1002
KBPC1502-G	KBPC1502
KBPC2502-G	KBPC2502
KBPC3502-G	KBPC3502
KBPC5002-G	KBPC5002
KBPC1004-G	KBPC1004
KBPC1504-G	KBPC1504
KBPC2504-G	KBPC2504
KBPC3504-G	KBPC3504
KBPC5004-G	KBPC5004
KBPC1006-G	KBPC1006
KBPC1506-G	KBPC1506
KBPC2506-G	KBPC2506
KBPC3506-G	KBPC3506
KBPC5006-G	KBPC5006
KBPC1008-G	KBPC1008
KBPC1508-G	KBPC1508
KBPC2508-G	KBPC2508
KBPC3508-G	KBPC3508
KBPC5008-G	KBPC5008
KBPC1010-G	KBPC1010
KBPC1510-G	KBPC1510
KBPC2510-G	KBPC2510
KBPC3510-G	KBPC3510
KBPC5010-G	KBPC5010



**XXXXX / XXXX = Product type marking code**

**C = Comchip Logo**

## Standard Packaging

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
KBPC	50	500

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

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- ✓ Alternative Solution
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