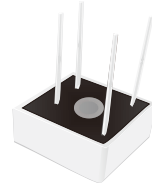


KBPC10005W-G Thru. KBPC5010W-G Series

Reverse Voltage: 50 to 1000V

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

RoHS Device

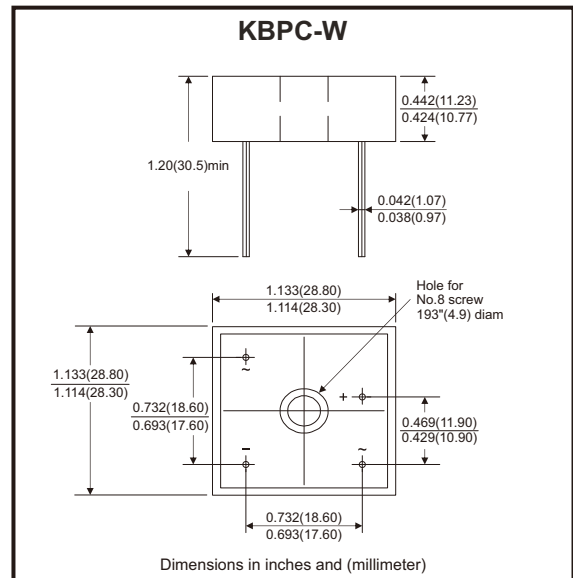


Features

- 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

- Case: KBPC-W package, molded plastic.
- Polarity: As marked on body.
- Mounting position: Any.



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	KBPC_W-G	Unit
		10005	1001	1002	1004	1006	1008	1010	
		15005	1501	1502	1504	1506	1508	1510	
		25005	2501	2502	2504	2506	2508	2510	
		35005	3501	3502	3504	3506	3508	3510	
		50005	5001	5002	5004	5006	5008	5010	
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 @ $T_c=55^\circ\text{C}$	$I_{F(AV)}$	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 @ $T_J=25^\circ\text{C}$	I_R	10.0					μA
Operating temperature range	T_J	-55 to +150					$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150					$^\circ\text{C}$

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

Fig.1 - Max. Forward Surge Current

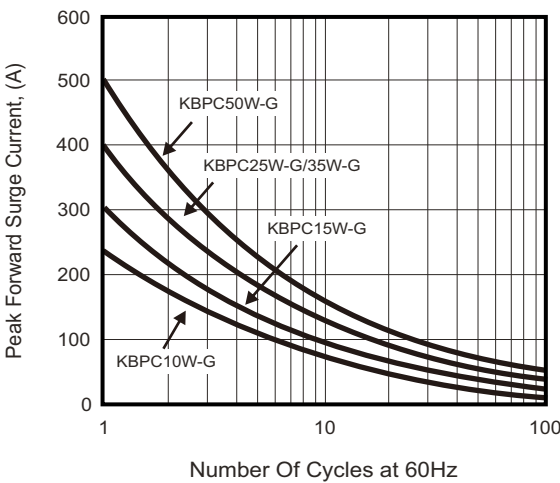


Fig.2 - Derating Curve Output Rectified Current

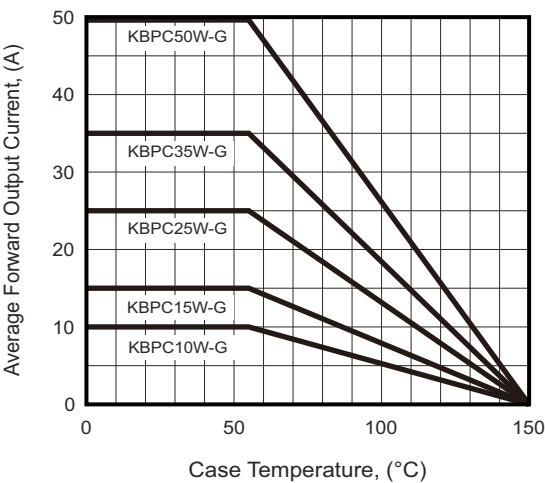


Fig.3 - Typical Forward Characteristics

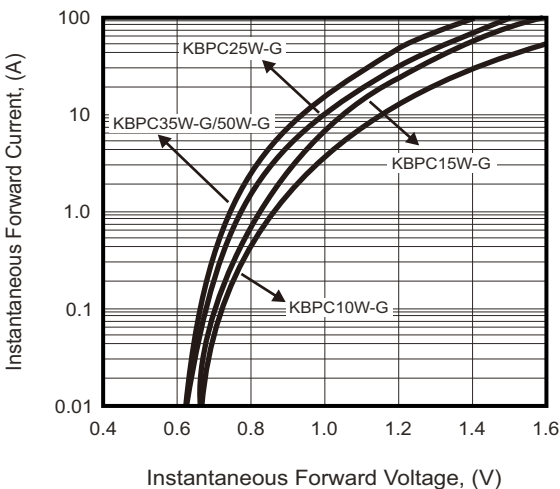
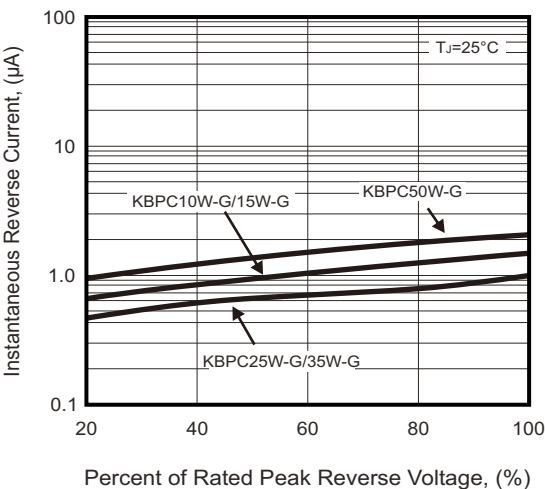
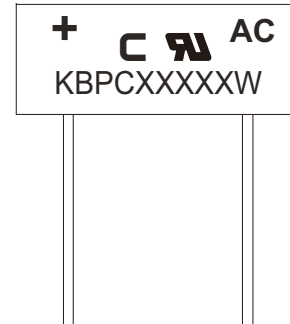


Fig.4 - Typical Reverse Characteristics



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



XXXXXX / XXXX = Product type marking code
C = Comchip Logo

Standard Packaging

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