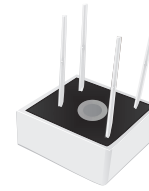


## KBPC10005W-G Thru. KBPC5010W-G Series

Reverse Voltage: 50 to 1000V

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

RoHS Device

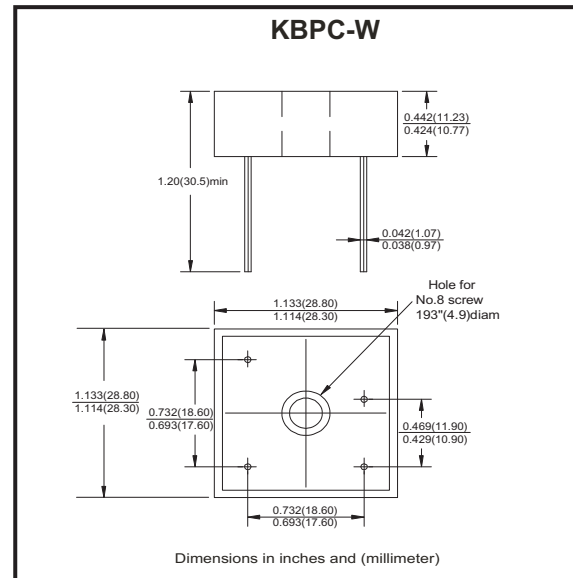


### Features

- 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	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 @Tc=55°C	I <sub(av)< sub=""></sub(av)<>	10	15	25	35	50	A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed 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 rate 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: 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 Forward Characteristics

