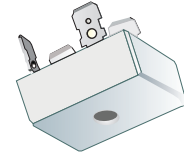


## KBPC10005-G Thru. KBPC5010-G Series

Reverse Voltage: 50 to 1000V

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

RoHS Device

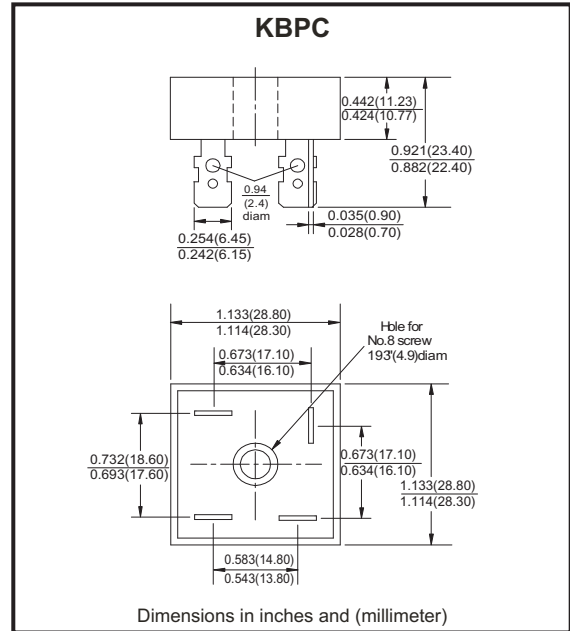


### Features

- 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 @ $T_c=55^\circ\text{C}$	$I_{(AV)}$	10	15	25	35	50	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed 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 rate DC Blocking Voltage Per Element @ $T_J=25^\circ\text{C}$	$I_R$	10.0					$\mu\text{A}$
Operating Temperature Range	$T_J$	-55 to +150					$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150					$^\circ\text{C}$

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

REV: B

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

Fig.1 - Maximum Forward Surge Current

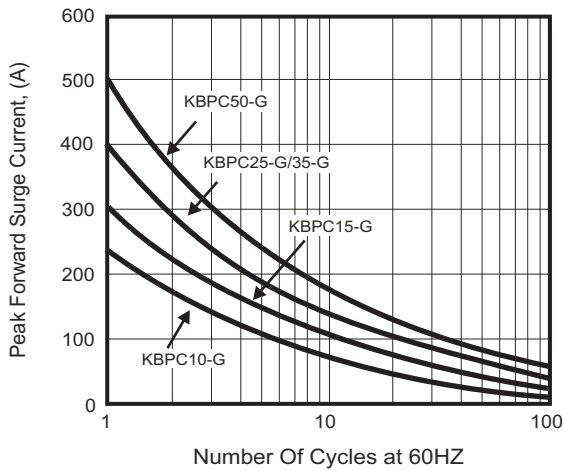


Fig.2 - Derating Curve Output Rectified Current

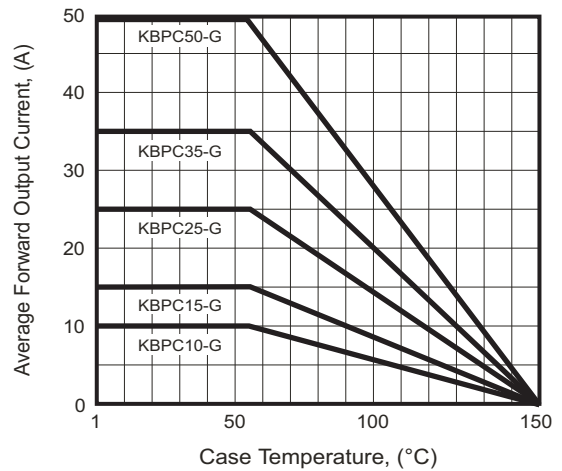


Fig.3 - Typical Forward Characteristics

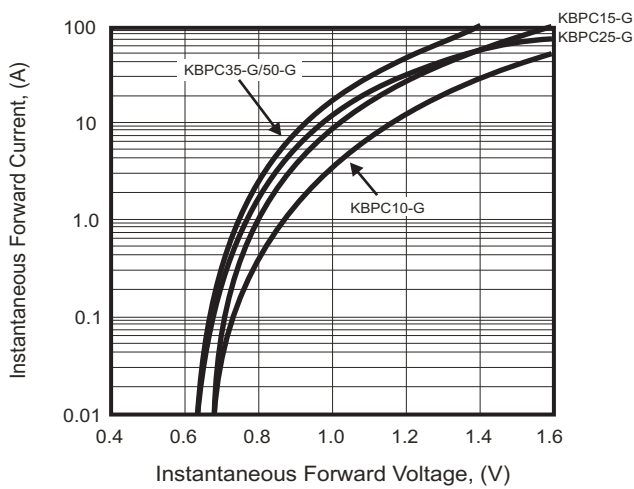


Fig.4 - Typical Forward Characteristics

