

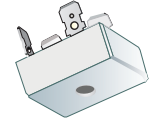
Silicon Bridge Rectifiers

KBPC10005-G Thru. KBPC5010-G Series

Reverse Voltage: 50 to 1000V

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

RoHS Device

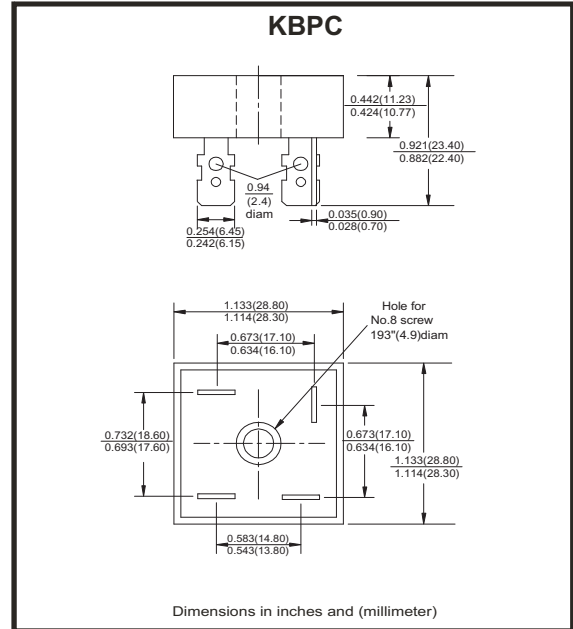


Features

- Surge overload-240~500 Amperes peak
- Low forward voltage drop
- Electrically isolated base -2000 Volts
- Materials used carries U/L recognition

Mechanical Data

- Polarit:As marked on Body
- Mounting position:Any
- Weight: 28.82grams



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 Reverse Peak Repetitive 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 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 @ $T_J=25^\circ C$	I_R	10.0					μA
Operating Temperature Range	T_J	-55 to +125					$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150					$^\circ C$

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

Fig.1 - Maximum Forward Surge Current

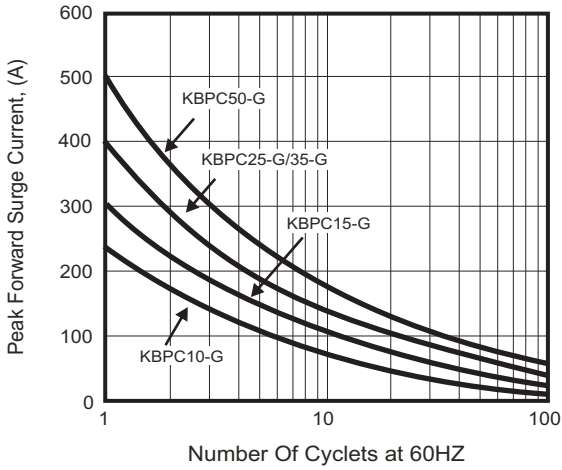


Fig.2 - Derating Curve Output Rectified Current

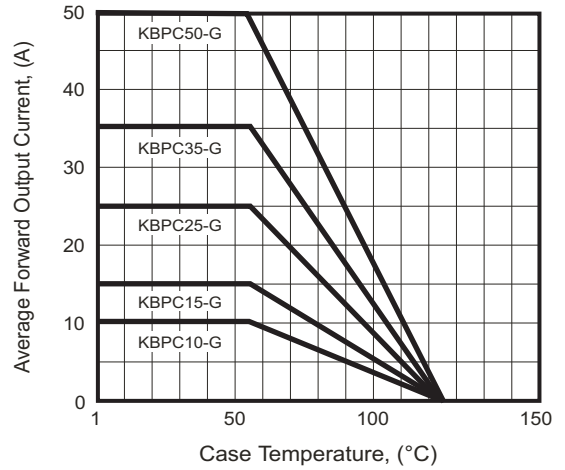


Fig.3 - Typical Forward Characteristics

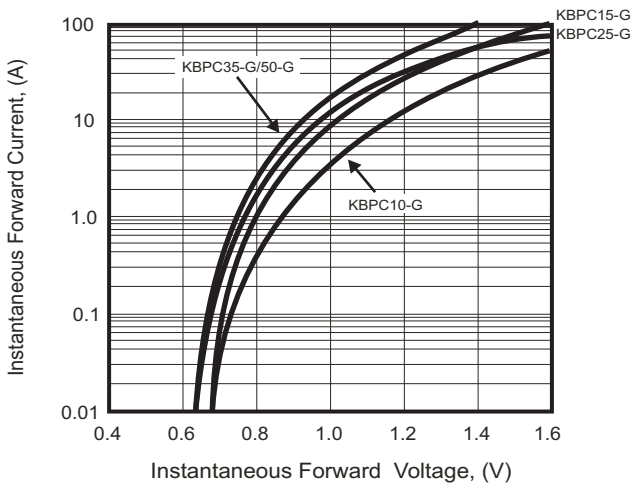


Fig.4 - Typical Forward Characteristics

