



KBPC1000G THRU KBPC1010G

SINGLE PHASE 10.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

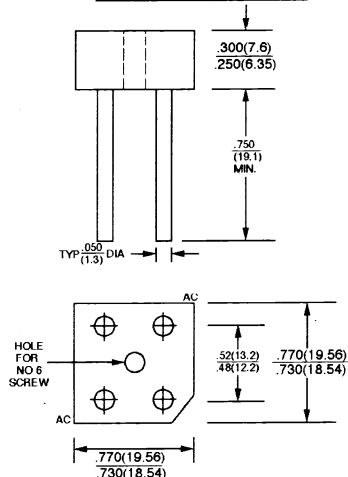


FEATURES

- * Surge overload rating to 200 amperes peak.
- * Low forward voltage drop
- * Mounting position: Any
- * Small size, simple installation.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
15.0/25.0/35.0 Amperes

KBPC 8/10



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating .at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	KBPC 1000G	KBPC 1001G	KBPC 1002G	KBPC 1004G	KBPC 1006G	KBPC 1008G	KBPC 1010G	UNITS
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 D. C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C = 50^\circ\text{C}$	$I_{F(AV)}$	10.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	175							A
Maximum Forward Voltage Drop per element @ 5A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25^\circ\text{C}$ D. C Blocking Voltage per element @ $T_A = 125^\circ\text{C}$	I_R	10 500							μA μA
Operating Temperature Range	T_J	- 55 to + 150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 to + 150							$^\circ\text{C}$

NOTE: (1) Bolt down on heat - sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with # 6 screw
(2) Unit mounted on $6.0 \times 6.0 \times 0.11$ " thick ($15 \times 15 \times 0.3\text{cm}$) Cu. Plate

RATINGS AND CHARACTERISTIC CURVES (KBPC1000G THRU KBPC1010G)

FIG.1 - MAXIMUM NON - REPETITIVE
FORWARD SURE CURRENT - PER ELEMENT

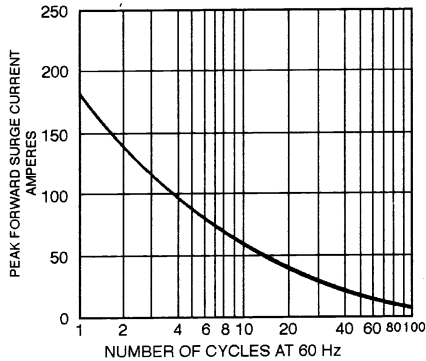


FIG.2 - TYPICAL FORWARD CURRENT
DERATING CURVE

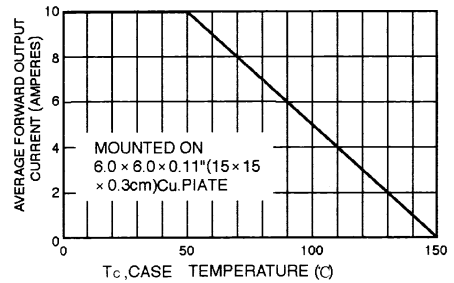


FIG.3 - TYPICAL FORWARD
CHARACTERISTICS - PER ELEMENT

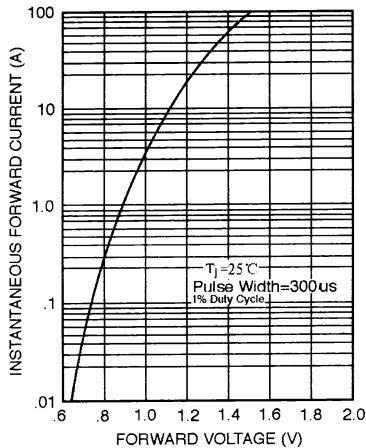


FIG.4 - TYPICAL REVERSE
CHARACTERISTICS PER - ELEMENT

