




# KBPC1000G THRU KBPC1010G

## SINGLE PHASE 10.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

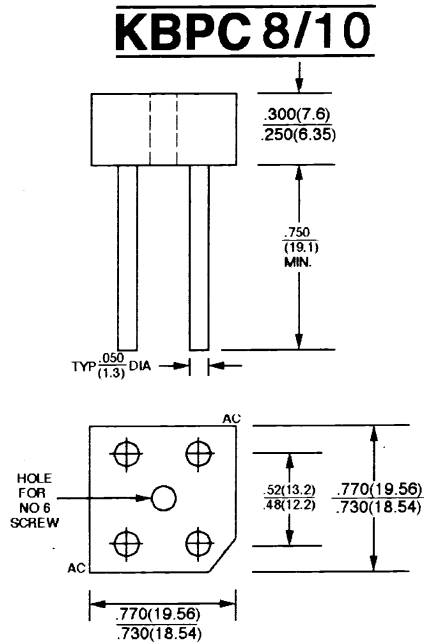


**FEATURES**

- \* 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 @ $T_C = 50^\circ C$	$I_{F(AV)}$	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 @ $T_A = 25^\circ C$ D. C. Blocking Voltage per element @ $T_A = 125^\circ C$	$I_R$	10 500							$\mu A$ $\mu A$
Operating Temperature Range	$T_J$	- 55 to + 150							$^\circ C$
Storage Temperature Range	$T_{STG}$	- 55 to + 150							$^\circ C$

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 x 6.0 x 0.11" thick (15 x 15 x 0.3cm) Cu. Plate

# RATINGS AND CHARACTERISTIC CURVES (KBPC1000G THRU KBPC1010G)

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

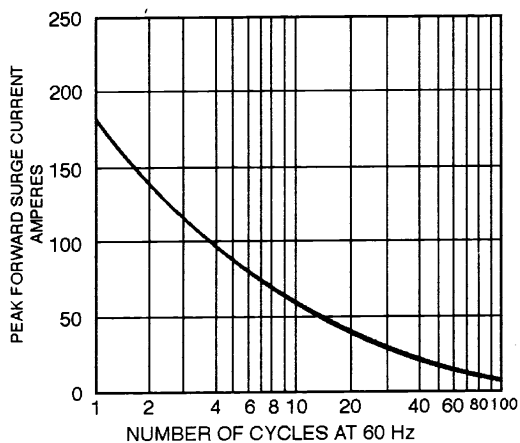


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

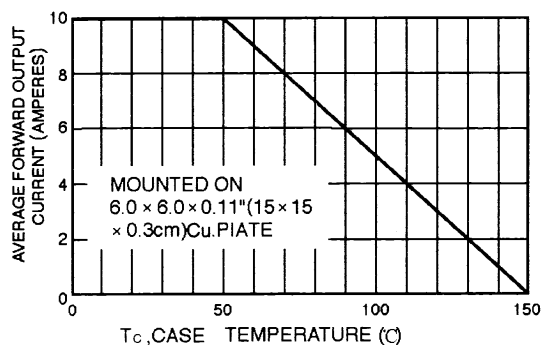


FIG.3 - TYPICAL FORWARD CHARACTERISTICS - PER ELEMENT

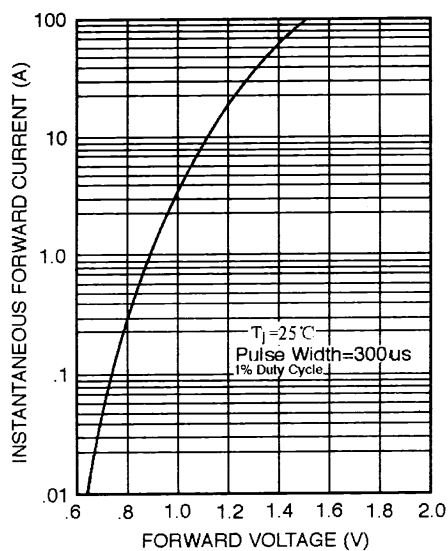


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER - ELEMENT

