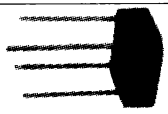
JGD

KBPC800G THRU KBPC810G

SINGLE PHASE 8.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

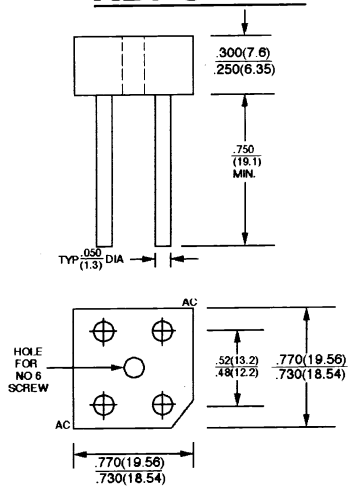


VOLTAGE RANGE
50 to 1000 Volts
CURRENT
8.0 Amperes

FEATURES

* Surge overload rating 200 amperes peak
* Low forward voltage drop
* Small size, simple installation
* Leads solderable per MIL-STD-202, method 208

KBPC 8/10



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ 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 800G	KBPC 801G	KBPC 802G	KBPC 804G	KBPC 806G	KBPC 808G	KBPC 810G	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 @ $T_C = 50℃$	$I_{F(AV)}$	8.0							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 @ 4.0A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25℃$ D.C. Blocking Voltage per element @ $T_A = 125℃$	I_R	10 500							μA μA
Operating Temperature Range	T_J	−55 to +150							℃
Storage Temperature Range	T_{STG}	−55 to +150							℃

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

RATINGS AND CHARACTERISTIC CURVES (KBPC800G THRU KBPC810G)

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

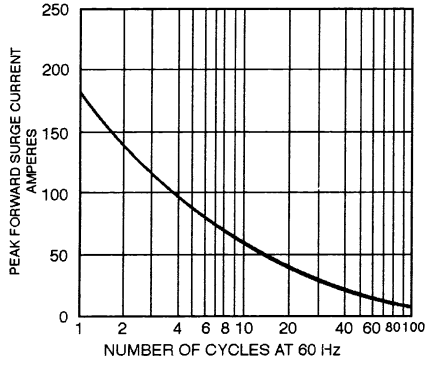


FIG.2 – TYPICAL FORWARD CURRENT DERATING CURVE

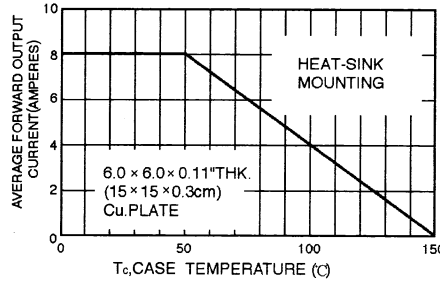


FIG.3 – TYPICAL FORWARD CHARACTERISTICS – PER ELEMENT

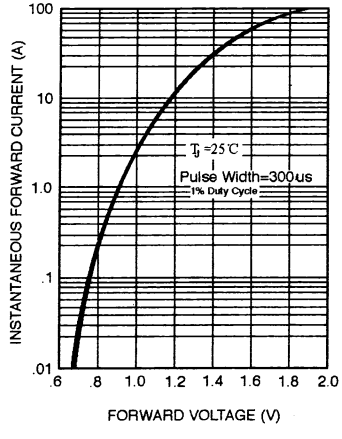


FIG.4 – TYPICAL REVERSE CHARACTERISTICS – PER ELEMENT