



KBP100G THRU KBP110G

SINGLE PHASE 1.0 AMP GLASS PASSIVATED BRIDGE RECTIFIERS



FEATURES

- * Ideal for printed circuit board
- * Reliable low cost construction
- * High surge current capability
- * Small size, simple installation
- * Leads solderable per MIL-STD-202, method 208

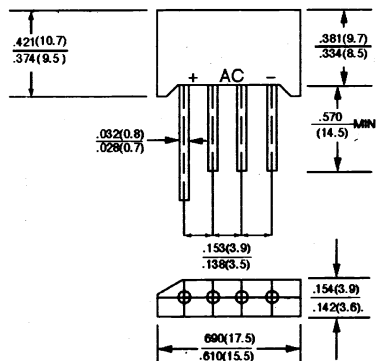
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

RS-1



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	KBP 100G	KBP 101G	KBP 102G	KBP 104G	KBP 106G	KBP 108G	KBP 110G	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 @ $T_A = 50^\circ\text{C}$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
Maximum Forward Voltage Drop per element @ 1.0A	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							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES (KBP100G THRU KBP110G)

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

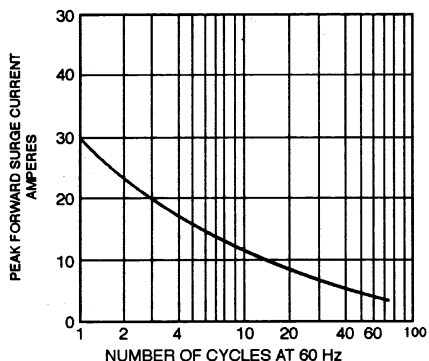


FIG.2 – TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

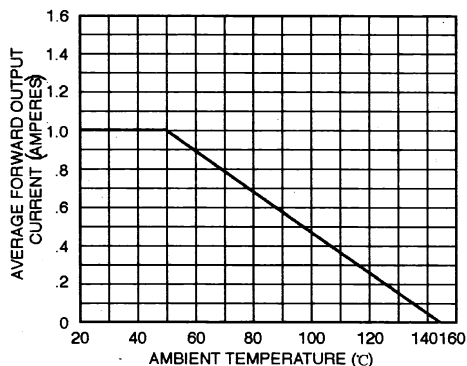


FIG.3 – TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

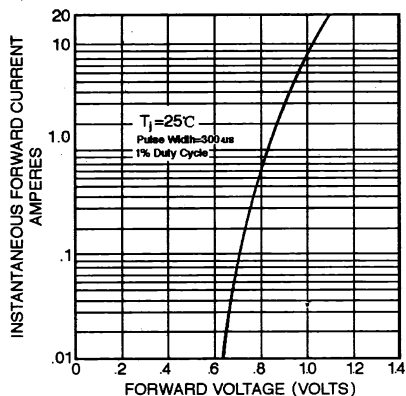


FIG.4 – TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

