



# KBP100G THRU KBP110G

## SINGLE PHASE 1.0 AMP GLASS PASSIVATED BRIDGE RECTIFIERS

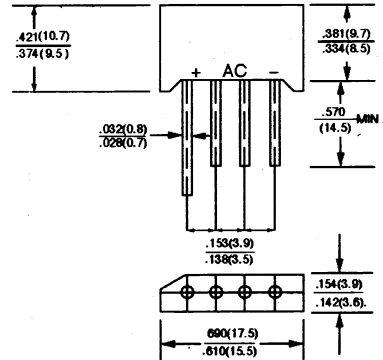


**VOLTAGE RANGE**  
50 to 1000 Volts  
**CURRENT**  
1.0 Ampere

### 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

**RS-1**



Dimensions in inches and (millimeters)

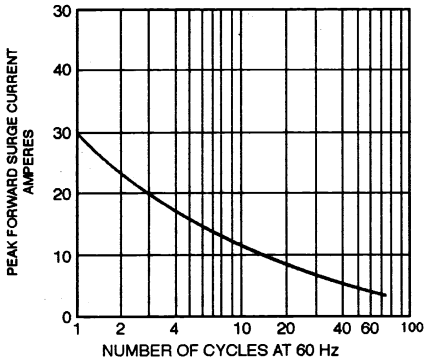
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%

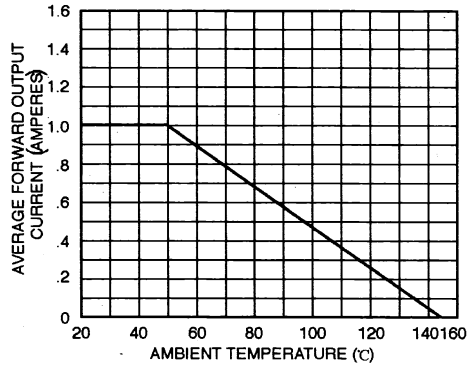
TYPE NUMBER	SYMBOLS	KBP 100G	KBP 101G	KBP 102G	KBP 104G	KBP 106G	KBP 108G	KBP 110G	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum D. C Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A = 50^\circ C$	$I_{F(AV)}$	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 @ $T_A = 25^\circ C$ 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							$^\circ C$

## RATINGS AND CHARACTERISTIC CURVES (KBP100G THRU KBP110G)

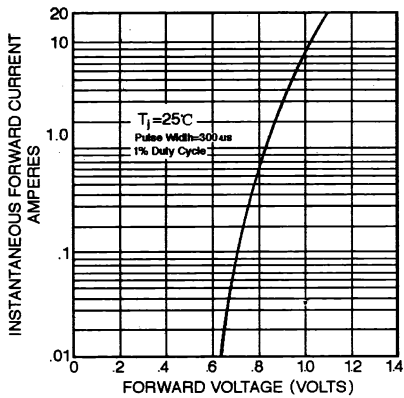
**FIG. 1 - TYPICAL MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT - PER ELEMENT**



**FIG. 2 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE**



**FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER ELEMENT**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER ELEMENT**

