

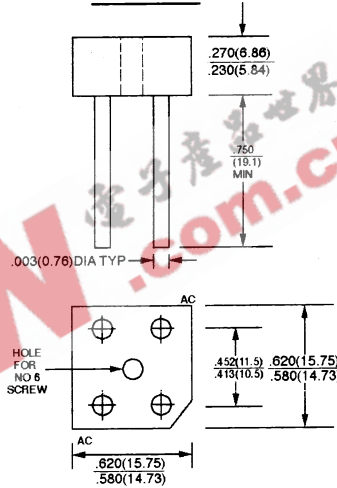


**KBPC300G THRU KBPC310G**  
**SINGLE PHASE 3.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS**



**VOLTAGE RANGE**  
 50 to 1000 Volts  
**CURRENT**  
 3.0 Amperes

**KBPC-3**



Dimensions in inches and (millimeters)

**FEATURES**

- \* Glass passivated junction
- \* Surge overload rating 60 amperes peak
- \* Low forward voltage drop
- \* Small size, simple installation
- \* Leads solderable per MIL-STD-202, method 208

**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 300G	KBPC 301G	KBPC 302G	KBPC 304G	KBPC 306G	KBPC 308G	KBPC 310G	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum D. C. Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T <sub>C</sub> = 50°C	I <sub>F(AV)</sub>	3.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	60							A
Maximum Forward Voltage Drop per element @ 1.5A	V <sub>F</sub>	1.10							V
Maximum Reverse Current at Rated @ T <sub>A</sub> = 25°C D. C. Blocking Voltage per element @ T <sub>A</sub> = 125°C	I <sub>R</sub>	10 500							μA μA
Operating Temperature Range	T <sub>J</sub>	-55 to + 150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							°C



### RATINGS AND CHARACTERISTIC CURVES (KBPC300G THRU KBPC310G)

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

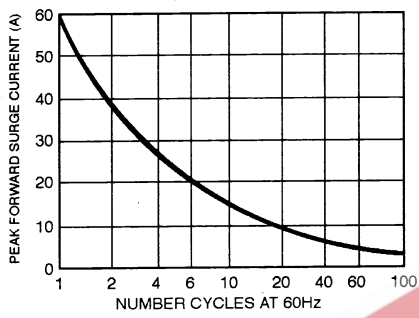


FIG. 2 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

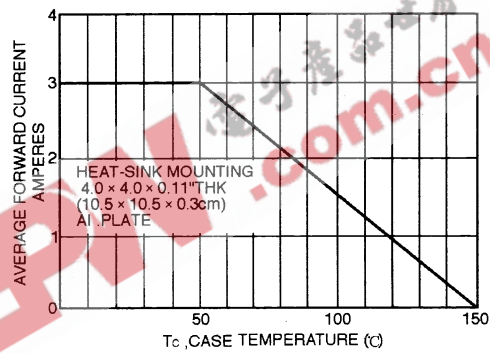


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS - PER ELEMENT

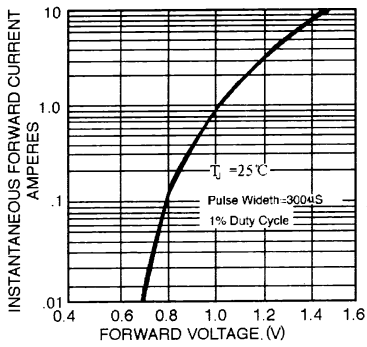


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS - PER ELEMENT

