

**KBP**

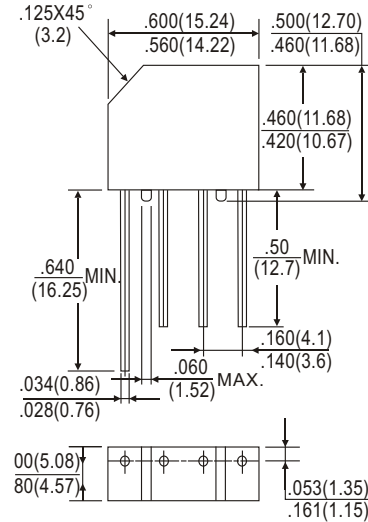
**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 3.0 A**

### Features

- Surge overload rating-80 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory
- Flammability Classification 94V-O
- Mounting position: Any
- Lead: Silver Plated Cooper Lead.

### Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



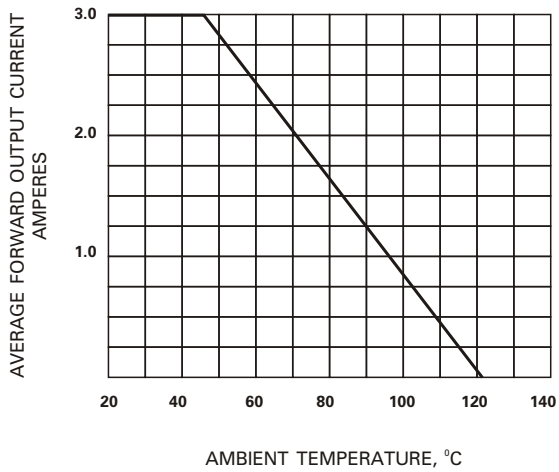
Dimensions in inches and (millimeters)

### Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified

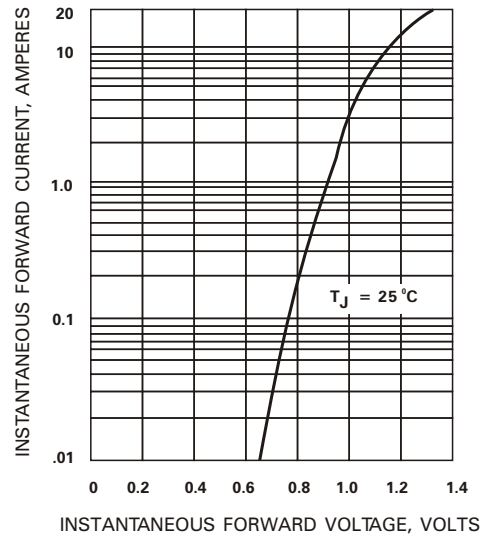
Characteristic	Symbol	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ T <sub>A</sub> =25°C	V <sub>(AV)</sub>	3.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	80							A
Maximum DC Forward Voltage drop per element at 1.0A DC	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at rated @ T <sub>A</sub> =25°C DC Blocking Voltage Per Element @ T <sub>A</sub> =100°C	I <sub>R</sub>	10 1							μA mA
I <sup>2</sup> t Rating for fusing(t<8.3ms)	I <sup>2</sup> t	10							A <sup>2</sup> S
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C



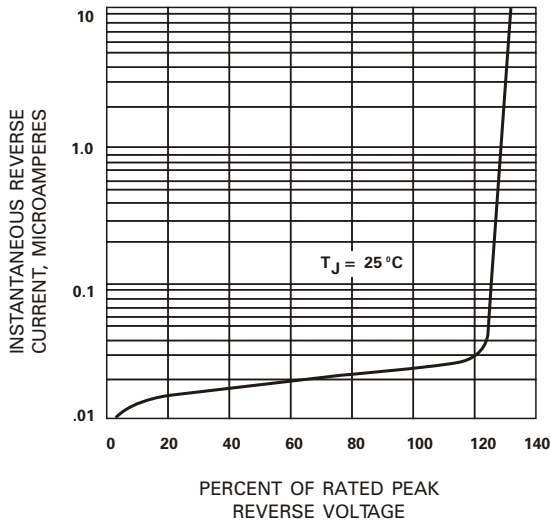
**Fig. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**Fig. 3 - TYPICAL FORWARD CHARACTERISTICS**



**Fig. 4 - MAXIMUM FORWARD SURGE CURRENT**

