

# KBP005M/3N246 THRU KBP10M/3N252

## IN-LINE GLASS PASSIVATED SINGLE PHASE RECTIFIER BRIDGE

VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

**Recongized File #E111753**

### FEATURES

- Surge overload rating: 50 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriter Laboratory Flammability Classification 94V-O
- Reliable low cost construction utilizing molded plastic technique

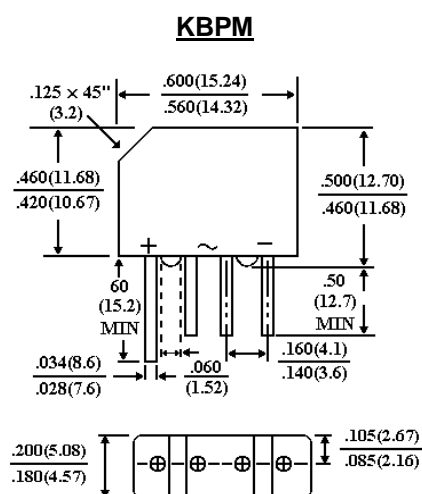
### MECHANICAL DATA

Terminals: Lead solderable per MIL-STD-202,

Method 208

Mounting position: Any

Weight: 0.06 ounce, 1.7 grams



Dimensions in inches and (millimeters)

	KBP005M 3N246	KBP01M 3N247	KBP02M 3N248	KBP04M 3N249	KBP06M 3N250	KBP08M 3N251	KBP10M 3N252	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current at 50 °C Ambient	1.5							A
Peak One Cycle Surge Overload Current	50.0							A
Maximum Forward Voltage Drop per Bridge at 1.0A dc Element at 3.14A dc	1.0							V
	1.3							
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage	5							µg A
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage and 100 °C	0.5							mA
I <sup>2</sup> t Rating for fusing ( t < 8.35ms)	10.0							A <sup>2</sup> S
Typical Junction capacitance per leg (Note 1)	15.0							pF
Typical Thermal resistance per leg (Note 2) R <sub>θJA</sub>	40.0							°C/W
	13.0							
Operating Temperature Range	-55 to +125							°C
Storage Temperature Range	-55 to +150							°C

### NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47" ± 0.47" (12 ± 12mm) copper pads

## RATING AND CHARACTERISTIC CURVES

KBP005M/3N246 THRU KBP10M/3N252

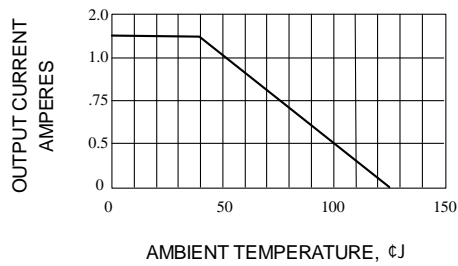


Fig. 1-OUTPUT CURRENT VS AMBIENT TEMPERATURE

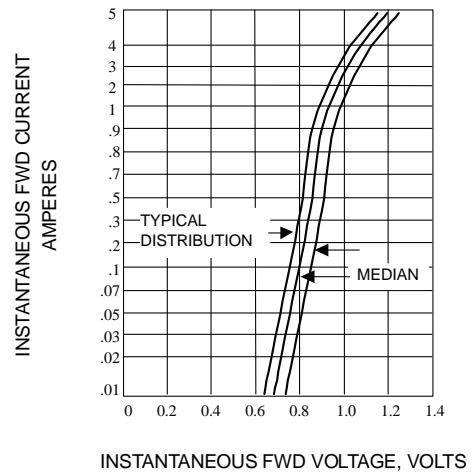


Fig. 2-TYPICAL REVERSE CHARACTERISTICS(25 °C)

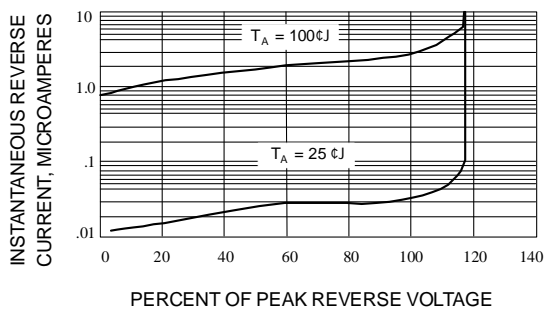


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

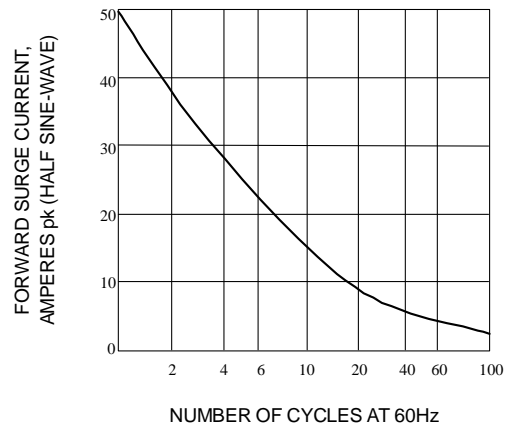


Fig. 4-NON-RECURRENT SURGE RATING