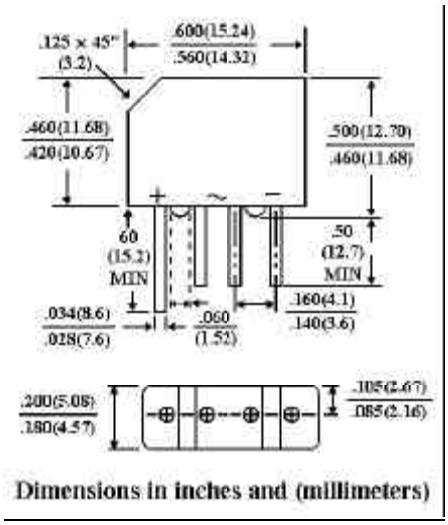
KBP005M/3N246 THRU KBP10M/3N252

IN-LINE GLASS PASSIVATED SINGLE PHASE RECTIFIER BRIDGE

VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

KBPM



Dimensions in inches and (millimeters)

FEATURES

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

MECHANICAL DATA

Terminals: Lead solderable per MIL-STD-202, Method 208

Mounting position: Any

Weight: 0.06 ounce, 1.7 grams

	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 ¢J 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 1.3							V
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage	5							£g A
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage and 100 ¢J	0.5							mA
I^2t Rating for fusing (t< 8.35ms)	10.0							A^2S
Typical Junction capacitance per leg (Note 1)	15.0							pF
Typical Thermal resistance per leg (Note 2) R £KJA R £KJL	40.0 13.0							¢J/W
Operating Temperature Range	-55 to +125							¢J
Storage Temperature Range	-55 to +150							¢J

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 ¡Ñ0.47"(12 ¡Ñ12mm) copper pads

RATING AND CHARACTERISTIC CURVES

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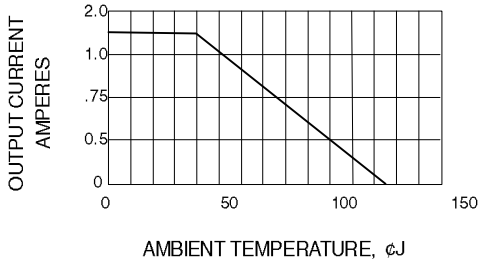

Fig. 1-OUTPUT CURRENT VS AMBIENT TEMPERATURE

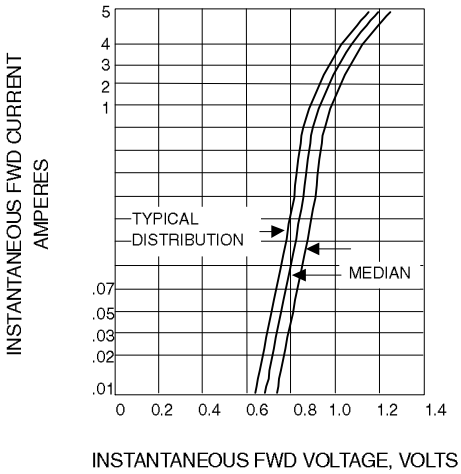

Fig. 2-TYPICAL REVERSE CHARACTERISTICS(25 ¢J)

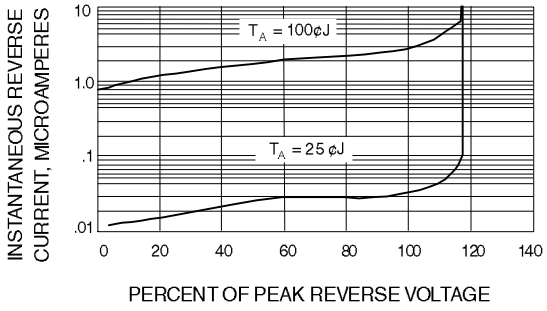

Fig. 3-TYPICAL REVERSE CHARACTERISTICS

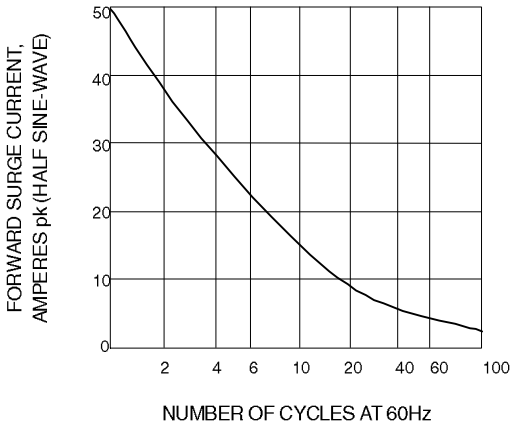

Fig. 4-NON-RECURRENT SURGE RATING