

KBP005M/3N246 THRU KBP10M/3N252

IN-LINE GLASS PASSIVATED SINGLE PHASE RECTIFIER BRIDGE

VOLTAGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

 Recognized File #E111753

FEATURES

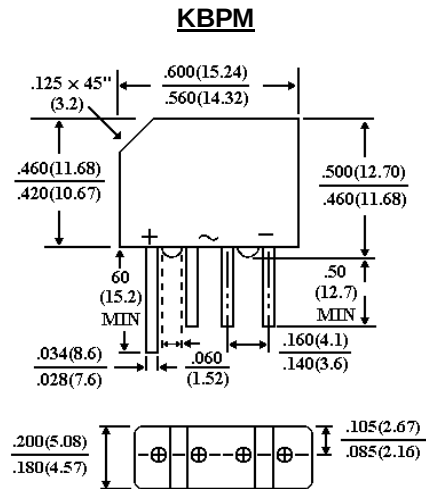
- Surge overload rating: 50 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriter Laboratory Flammability Classification 94V-O
- Reliable low cost construction utilizing molded plastic technique

MECHANICAL DATA

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

Mounting position: Any

Weight: 0.06 ounce, 1.7 grams



	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 ºC 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 ºC	0.5							mA
I ² t Rating for fusing (t < 8.35ms)	10.0							A ² S
Typical Junction capacitance per leg (Note 1)	15.0							pF
Typical Thermal resistance per leg (Note 2) R _{θJA}	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

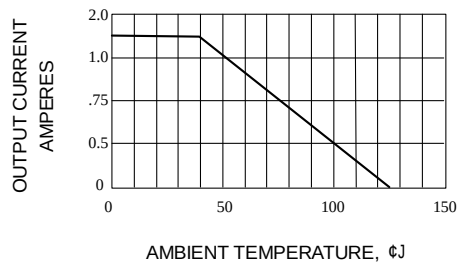


Fig. 1-OUTPUT CURRENT VS AMBIENT TEMPERATURE

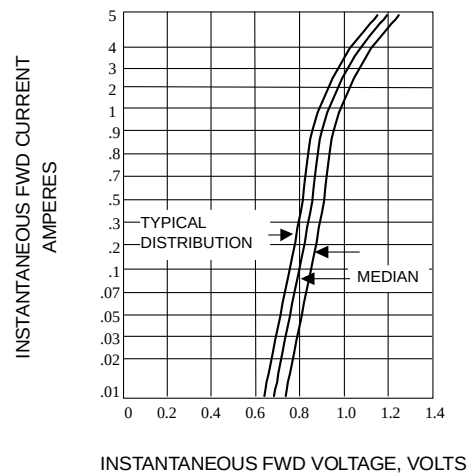


Fig. 2-TYPICAL REVERSE CHARACTERISTICS(25 °C)

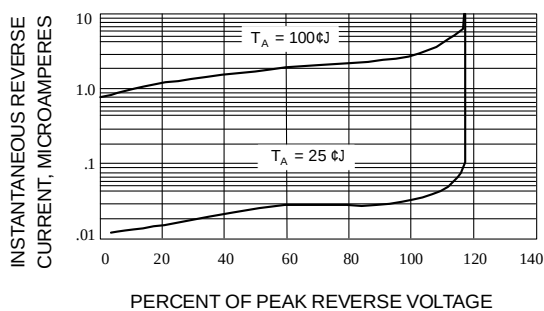


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

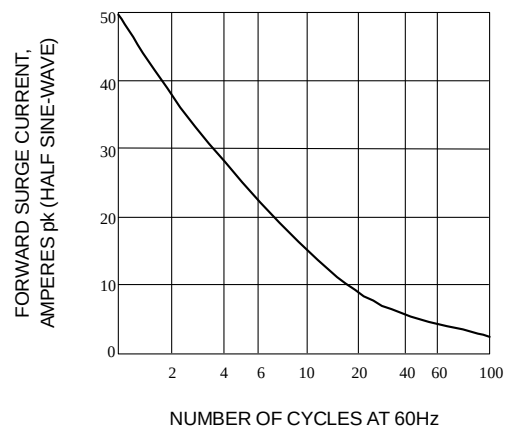


Fig. 4-NON-RECURRENT SURGE RATING