



2KBP005M/3N253 THRU 2KBP10M/3N259

IN-LINE GLASS PASSIVATED SINGLE PHASE RECTIFIER BRIDGE

VOLTAGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

KBPM

FEATURES

- Surge overload rating: 60 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriter Laboratory Flammability Classification 94V-0
- Reliable low cost construction utilizing molded plastic technique

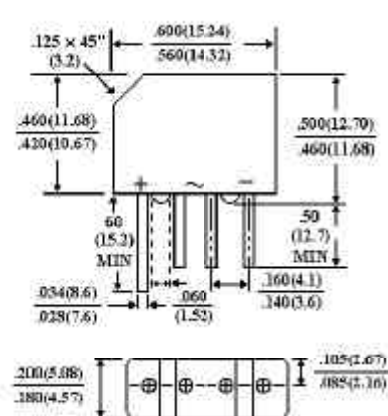
MECHANICAL DATA

Terminals: Lead solderable per MIL-STD-202,

Method 208

Mounting position: Any

Weight: 0.06 ounce, 1.7 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

	2KBP005M	2KBP01M	2KBP02M	2KBP04M	2KBP06M	2KBP08M	2KBP10M	UNITS
	3N253	3N254	3N255	3N256	3N257	3N258	3N259	
Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Max RMS Bridge input Voltage	35	70	140	280	420	560	700	V
Max DC Blocking Voltage	50	100	200	400	600	800	1000	V
Max Average Rectified Output Current at 25 °C Ambient	2.0							A
Peak One Cycle Surge Overload Current	60.0							A
Max Forward Voltage Drop per Bridge Element at 3.14A dc	1.1							V
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage	5							µgA
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage and 100 °C	0.5							mA
I ² t Rating for fusing (t < 8.35ms)	15							A ² S
Typical Junction capacitance per leg (Note 1) C _J	25.0							pF
Typical Thermal resistance per leg (Note 2) R _{θJKJA}	30.0							°C/W
Typical Thermal resistance per leg (Note 2) R _{θKJL}	11.0							°C/W
Operating Temperature Range	-55 to +125							°C
Storage Temperature Range	-55 to +150							°C

NOTES:

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

RATING AND CHARACTERISTIC CURVES

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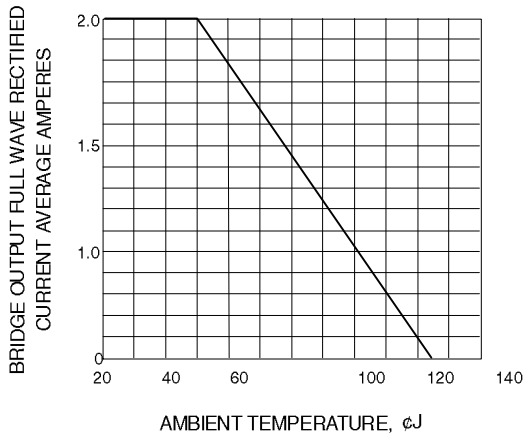


Fig. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

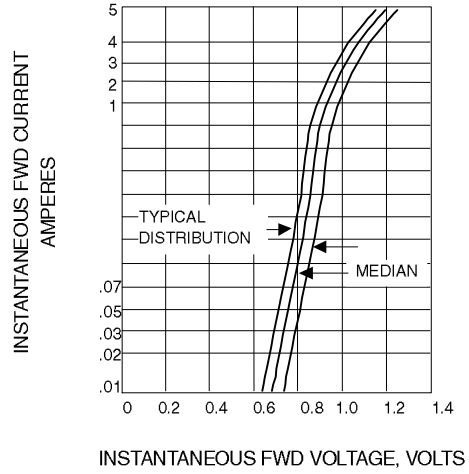


Fig. 2-TYPICAL FORWARD CHARACTERISTICS(25 °C)

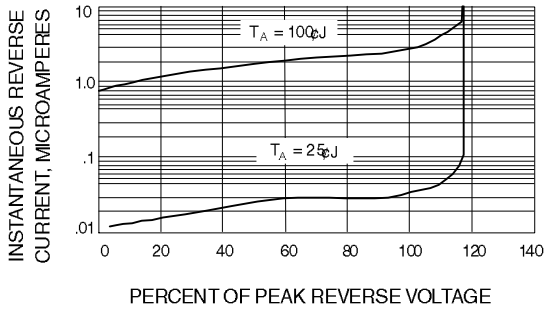


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

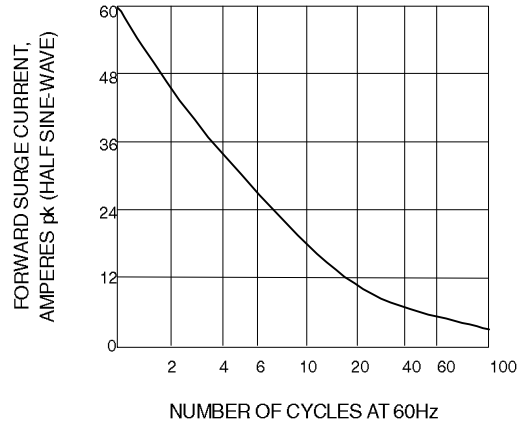


Fig. 4-NON-RECURRENT SURGE RATING