



KBP005~KBP10

2 A SINGLE-PHASE SILICON BRIDGE

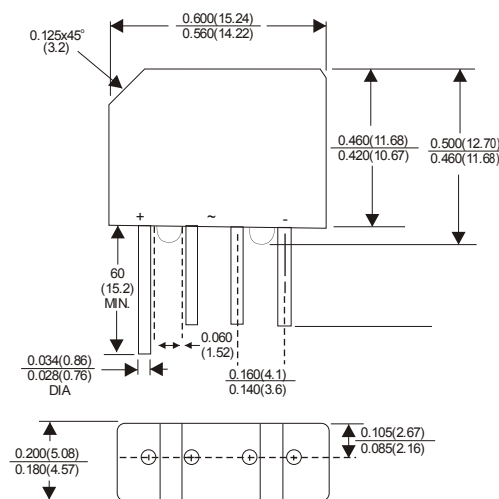
Voltage Range 50 to 1000 Volts

Current 2.0 Amperes

Features

- * UL Recognized File # E 228898
- * Surge overload rating--50 amperes peak
- * Ideal for printed circuit board
- * Plastic material has Underwriters Laboratory Flammability
- * Classification 94V-0
- * Mounting Position: Any
- * Lead: Silver Plated Cooper Lead.

KBPM / 2KBPM



Polarity shown on front side of case:
positive lead by beveled corner

Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_A=50^\circ\text{C}$	2.0							A
Peak Forward Surge Current, 8.3 ms Single half Sinewave superimposed on rated load (JEDEC method)	50.0							A
Maximum Forward Voltage Drop per Bridge Element at 1.0A Peak	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element	10.0							uA
Maximum Reverse Current at Rated DC Blocking Voltage per Element $T_A=100^\circ\text{C}$	100							uA
Operating Temperature Range T_J	-55 to +125							°C
Storage Temperature Range T_{STG}	-55 to +125							°C



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PaTing and Characteristivs Curves

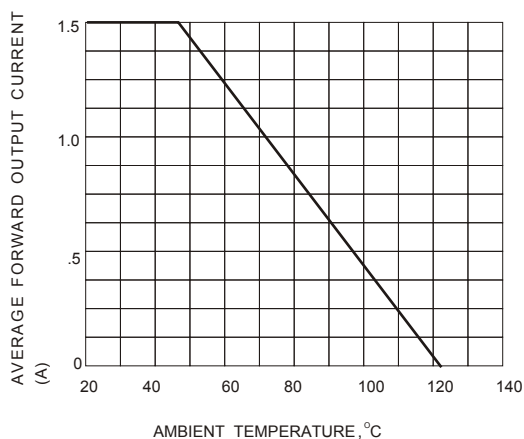


FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

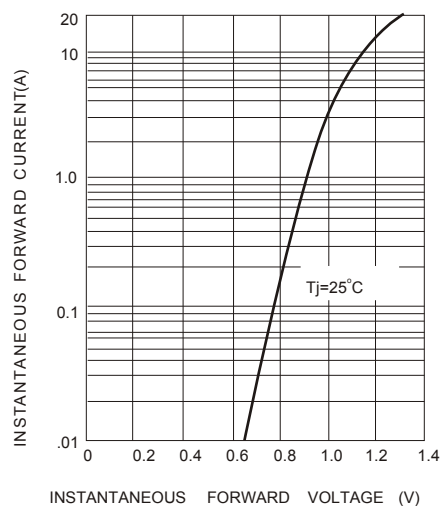


FIG. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

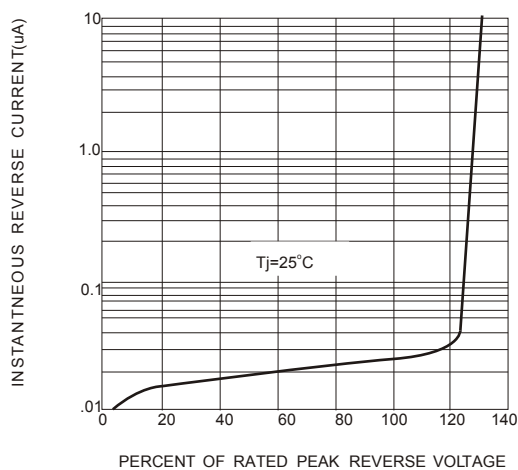


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

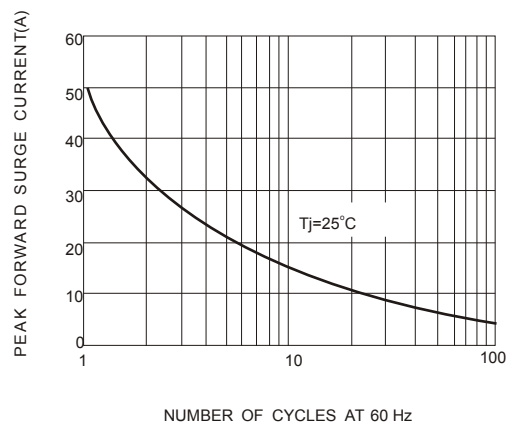


FIG. 4 - MAXIMUM FORWARD SURGE CURRENT