



KBP200~KBP2010

SILICON BRIDGE RECTIFIERS

VOLTAGE 50 to 1000 Volts **CURRENT** 2.0 Amperes

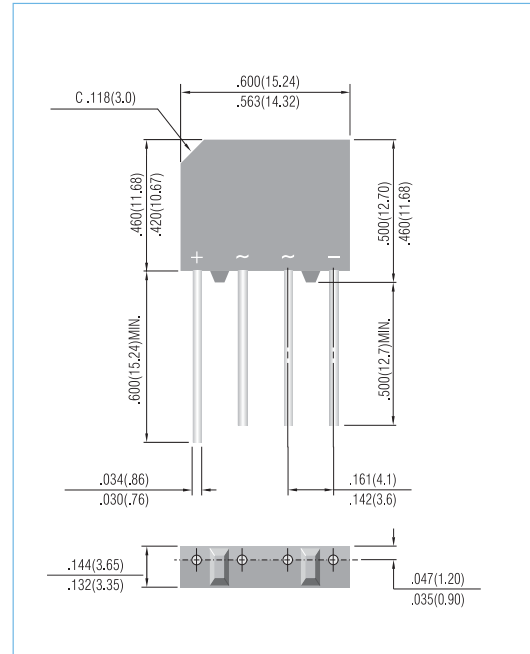
KBPF Unit: inch (mm)

FEATURES

- Plastic material used carries Underwriters Laboratory Recognition
- Surge overload rating : 60 amperes peak
- Exceeds environmental standards of MIL-STD-19500
- Ideal for printed circuit board.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Reliable low cost construction utilizing molded plastic technique
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Weight: 1.6 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	KBP200	KBP201	KBP202	KBP204	KBP206	KBP208	KBP2010	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at T _A =25°C	I _{F(AV)}	2							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	60							A
Maximum Forward Voltage Drop per Element at 2.0A	V _F	1.1							V
Maximum Reverse Current at T _J =25°C Rated DC Blocking Voltage per Element T _J =100°C	I _R	5 1							μA mA
Operating Temperature Range	T _J	-50 to +125							°C
Storage Temperature Range	T _{STG}	-50 to +150							°C



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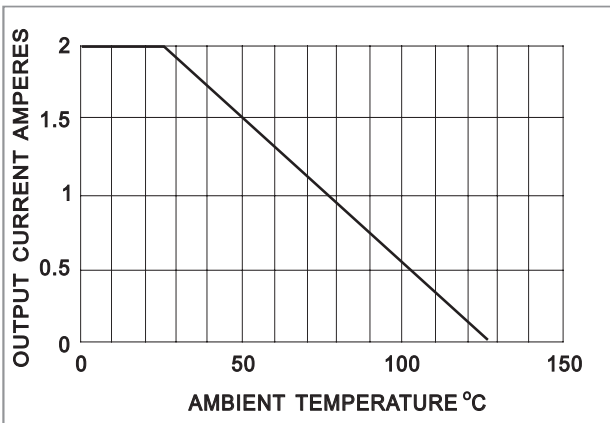


FIG. 1-OUTPUT CURRENT VS AMBIENT TEMPERATURE

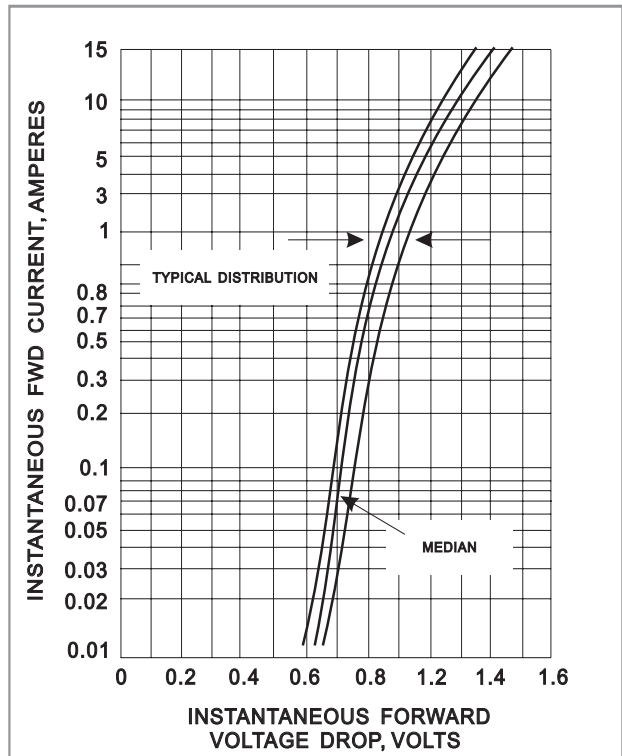


FIG. 2-TYPICAL FORWARD CHARACTERISTICS (25°C)

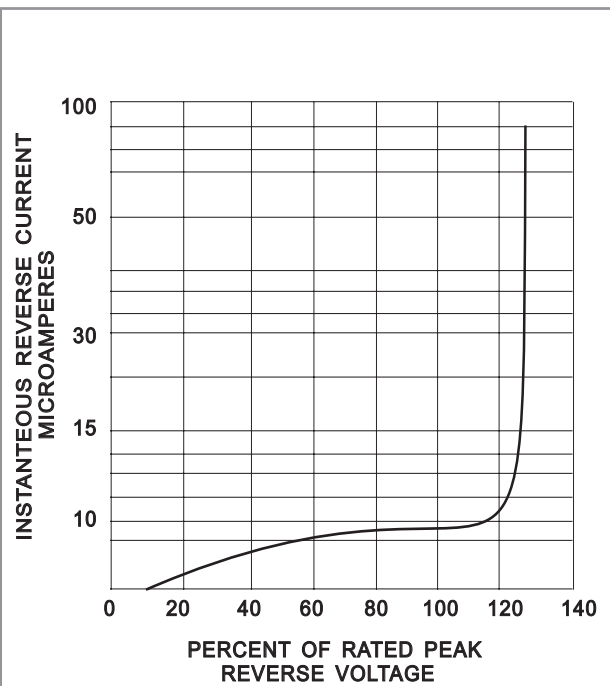


FIG. 3-TYPICAL REVERSE CHARACTERISTICS (25°C)

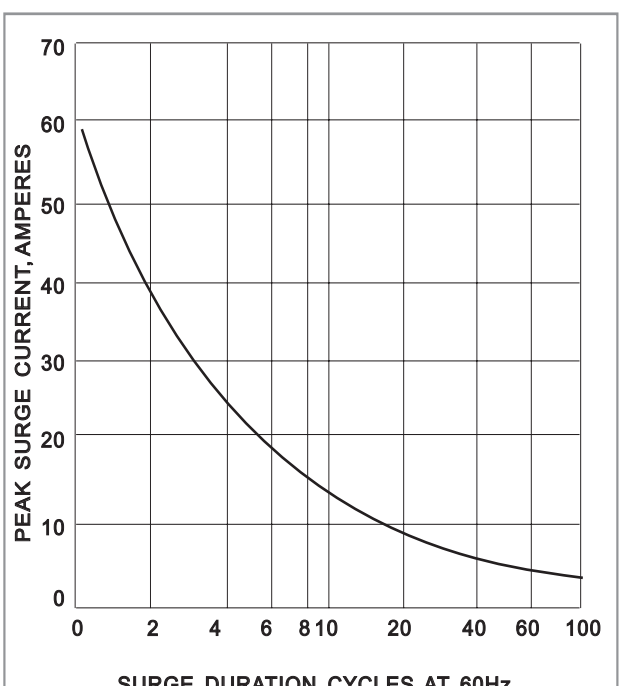


FIG. 4-NON-RECURRENT SURGE RATING