



KBP200~KBP2010

SILICON BRIDGE RECTIFIERS

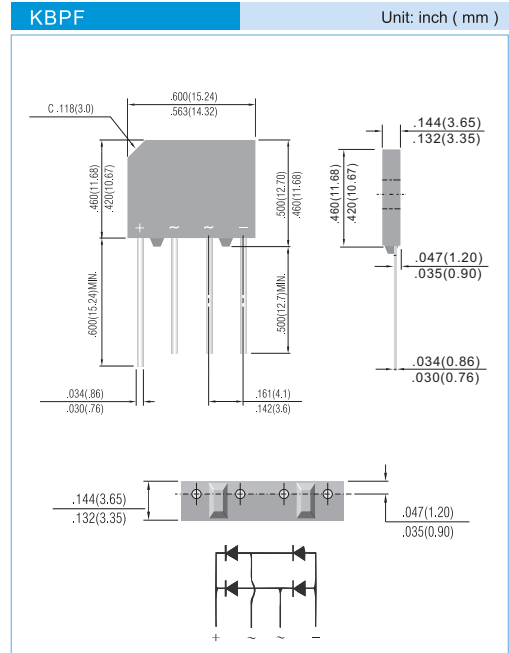
VOLTAGE 50 to 1000 Volts **CURRENT** 2.0 Amperes

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: 0.0564 ounces, 1.60 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 | KBP20-10 | 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 $T_A=25^\circ\text{C}$ | $I_{F(AV)}$ | 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 $T_A=25^\circ\text{C}$ Rated DC Blocking Voltage per Element $T_A=100^\circ\text{C}$ | I_R | 10 1 | | | | | | | μA mA |
| I^2t Rating for fusing ($t < 8.35\text{ms}$) | I^2t | 15 | | | | | | | A^2t |
| Operating Temperature Range | T_J | -50 to +125 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -50 to +150 | | | | | | | $^\circ\text{C}$ |



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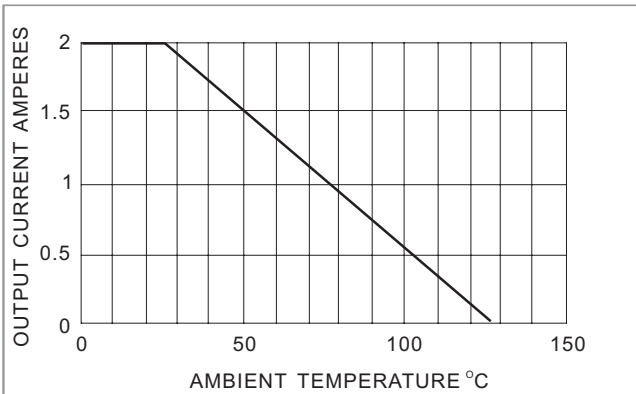


FIG.1-OUTPUT CURRENT VS AMBIENT TEMPERATURE

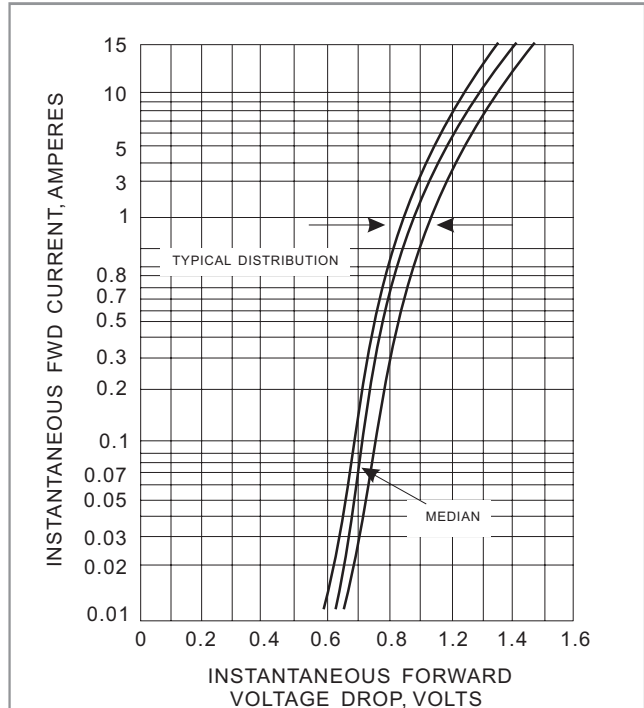


FIG.2-TYPICAL FORWARD CHATACTERISTICS (25°C)

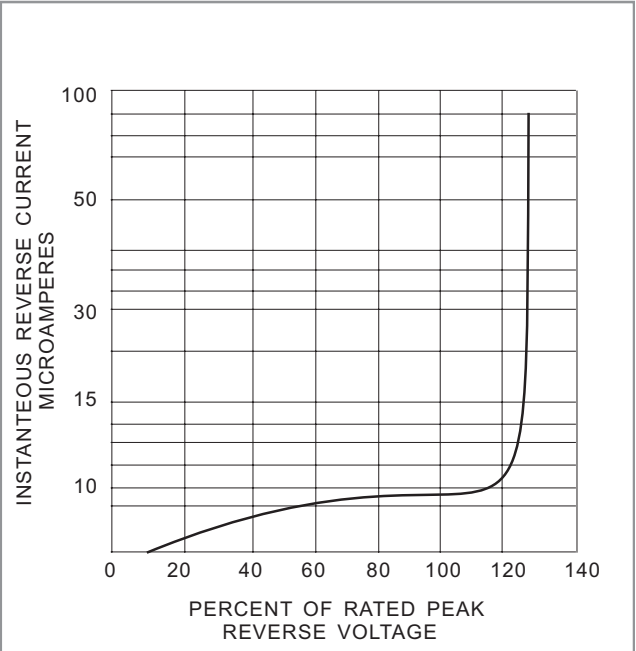


FIG.3-TYPICAL REVERSE CHATACTERISTICS (25°C)

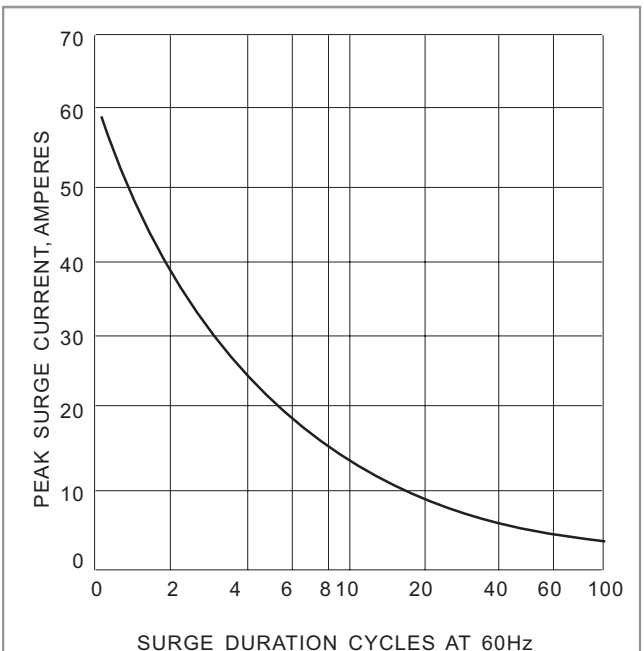


FIG.4-NON-RECURRENT SURGE RATING