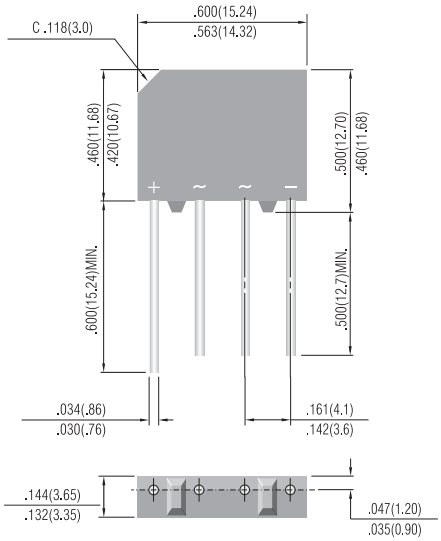
KBP200~KBP2010

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

MECHANICALDATA

- Case: Reliable low cost construction utilizing molded plastic techniquc
- 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 Birdge 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

KBP200~KBP2010

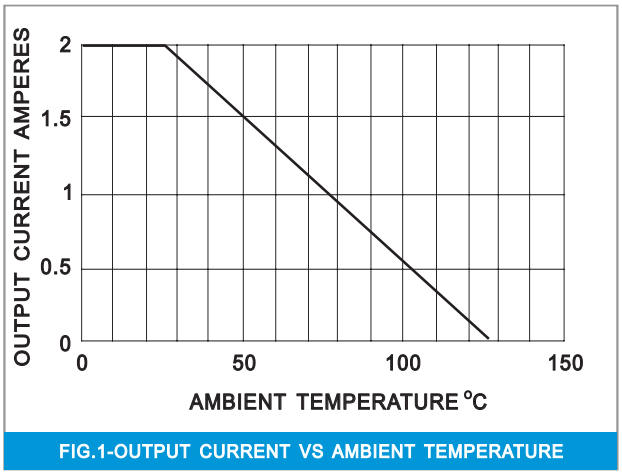


FIG.1-OUTPUT CURRENT VS AMBIENT TEMPERATURE

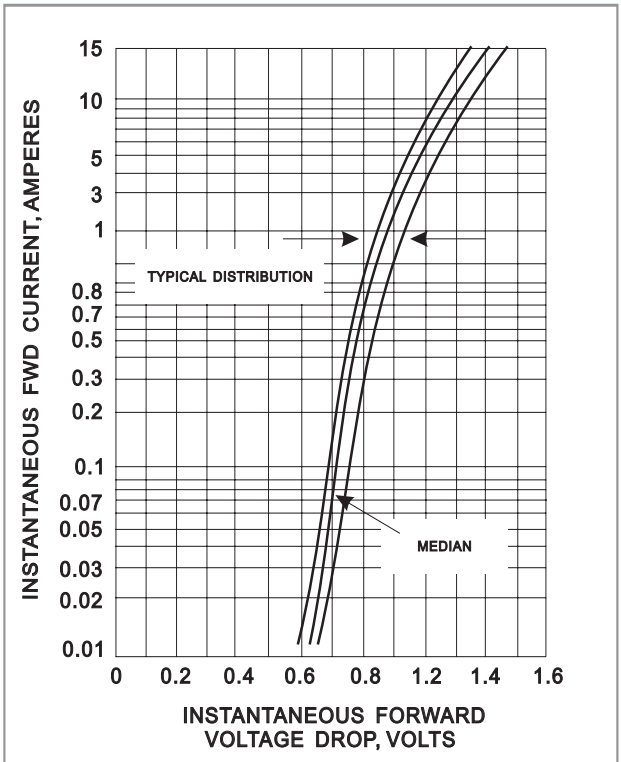


FIG.2-TYPICAL FORWARD CHATACTERISTICS (25°C)

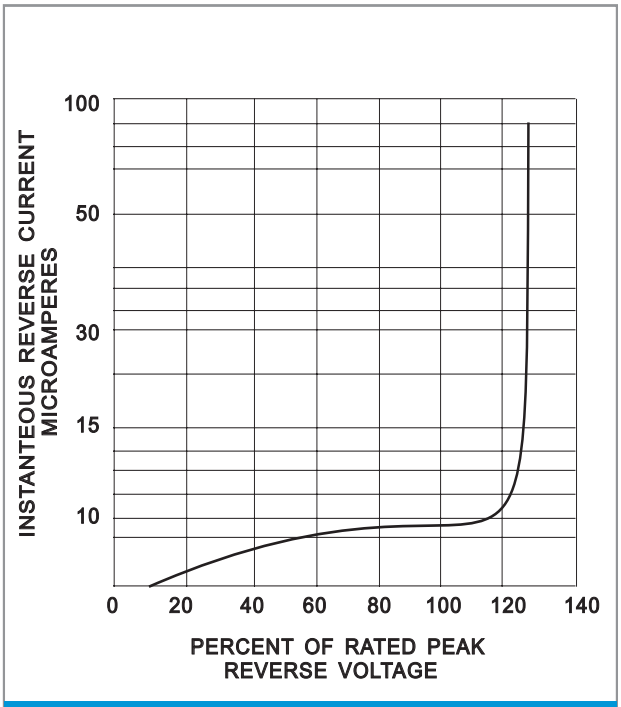


FIG.3-TYPICAL REVERSE CHATACTERISTICS (25°C)

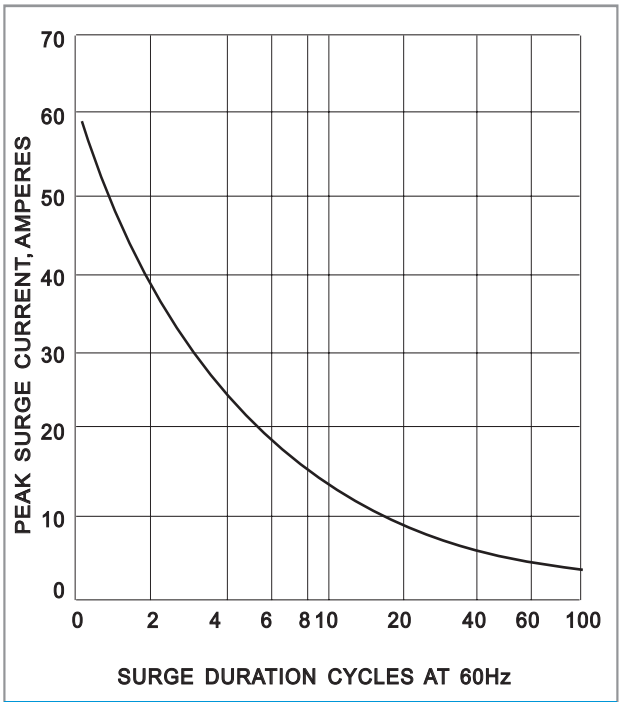


FIG.4-NON-RECURRENT SURGE RATING