



# KBP150~KBP1510

## SILICON BRIDGE RECTIFIERS

**VOLTAGE** 50 to 1000 Volts **CURRENT** 1.5 Amperes

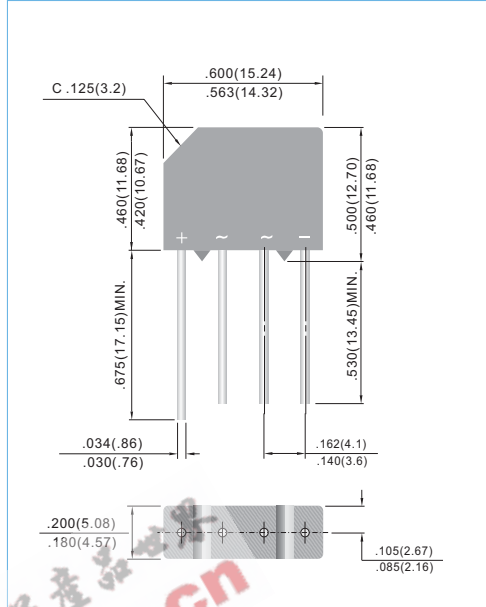
**KBP** Unit: inch (mm)

### FEATURES

- Plastic material used carries Underwriters Laboratory Recognition
- Exceeds environmental standards of MIL-STD-19500
- Surge overload rating : 60 amperes peak
- Ideal for printed circuit board.
- Pb free product : 99% Sn can meet RoHS environment substance directive request

### 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	KBP150	KBP151	KBP152	KBP154	KBP156	KBP158	KBP1510	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at 50°C Ambient	I <sub>AV</sub>	1.5							A
Peak one Cycle Surge Overload Current	I <sub>FSM</sub>	50							A
Maximum Forward Voltage Drop per Bridge Element at 1.0A DC	V <sub>F</sub>	1.0							V
Maximum Reverse Leakage at Rated DC Blocking Voltage T <sub>a</sub> = 25°C	I <sub>R</sub>	10 1							μA mA
Operating Temperature Range	T <sub>J</sub>	-50 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-50 to +150							°C



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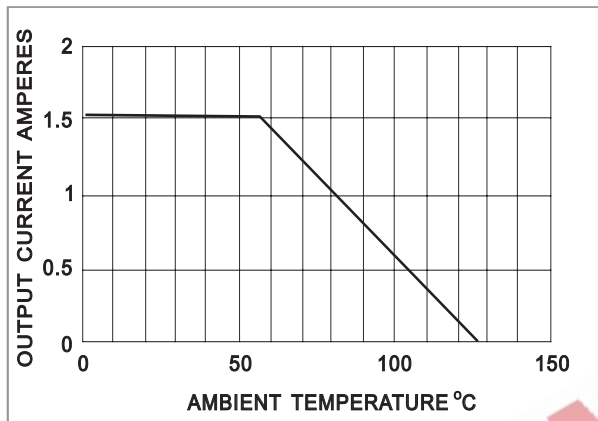


FIG.1-OUTPUT CURRENT VS AMBIENT TEMPERATURE

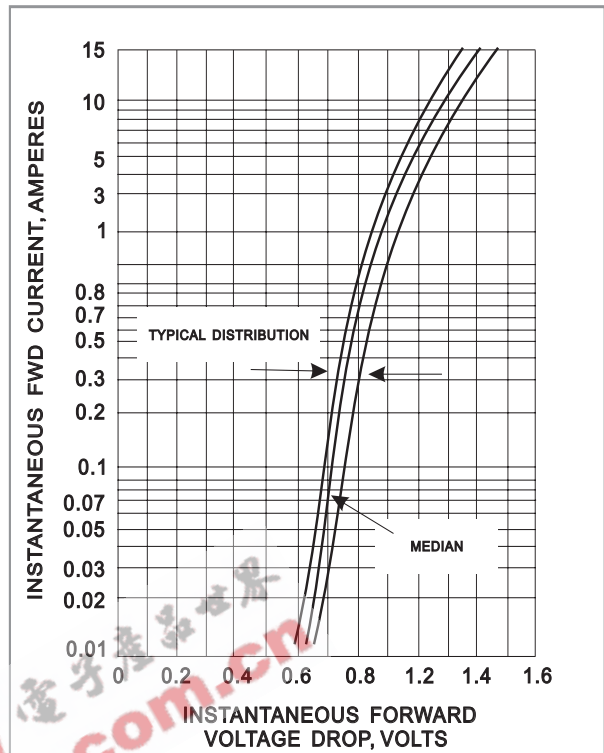


FIG.2-TYPICAL FORWARD CHARACTERISTICS (25°C)

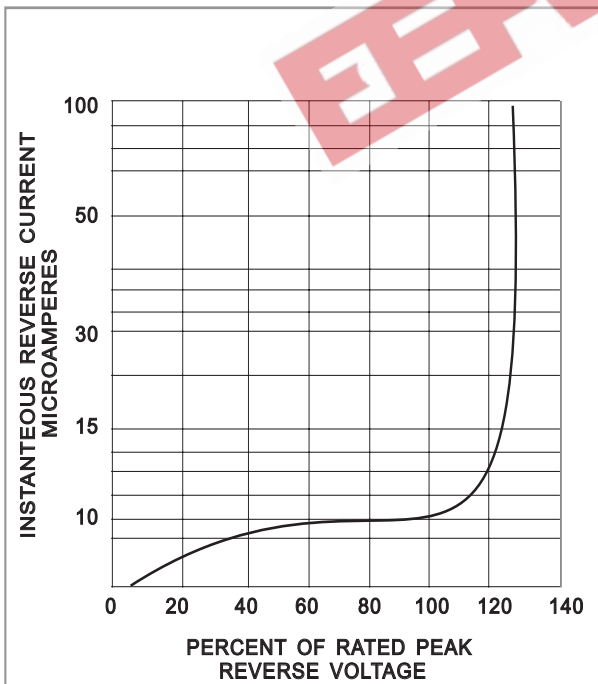


FIG.3-TYPICAL REVERSE CHARACTERISTICS (25°C)

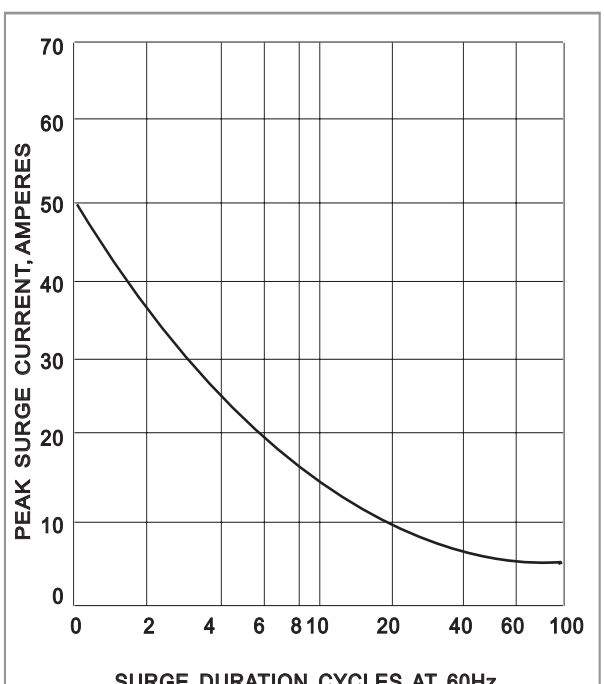


FIG.4-NON-RECURRENT SURGE RATING