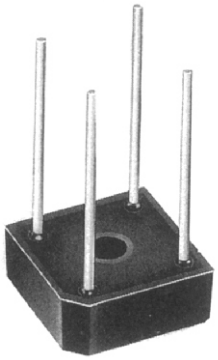
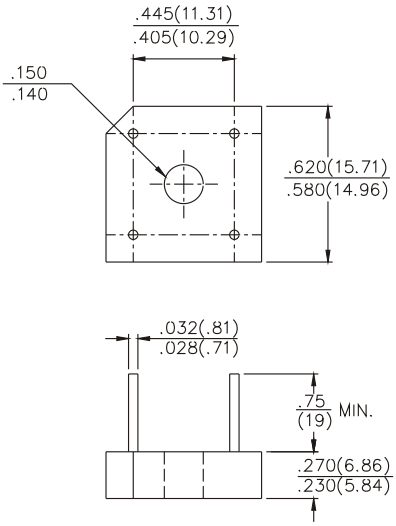
KBPC1 thru SERIES
BR3 SERIES

SINGLE-PHASE SILICON BRIDGE

CHENG- YI
ELECTRONIC



VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
3.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

- UL recognized file # E149311
- Surge overload rating-50 amperes peak
- Low forward voltage drop
- Small size:simple installation
- Tinned copper leads
- Mounting:Thru hold for #6 screw
- Plastic material has UL flammability classification 94V-O
- Electrically isolated base-1800Volts
- Mounting position: Any

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%.

		BR305	BR31	BR32	BR34	BR36	BR38	BR310	UNITS
		KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110	
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}	60	100	200	400	600	800	1000	V
Maximum Average Forward @ T_C=50°C* Output Current @ T_a=50°C**	$V_{(AV)}$	3.0 2.0							A A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	50							A
Maximum DC Forward Voltage drop per element at 1.5A DC	V_F	1.2							V
Maximum DC Reverse Current at rated @ T_A=25°C DC Blocking Voltage Per Element @ T_A=100°C	I_R	10 1							μA mA
I^2t Rating for fusing(t<8.3ms)	I^2t	10							A^2S
Typical Thermal Resistance	R θ JC	10							°C/W
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

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RATING AND CHARACTERISTICS CURVES
KBPC1 SERIES

Fig. 1 - MAXIMUM FORWARD SURGE CURRENT

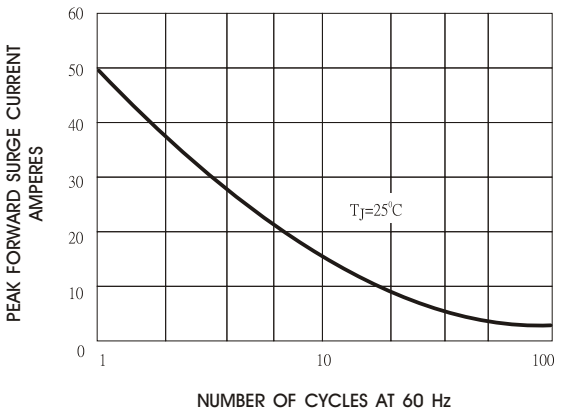

Fig. 2 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

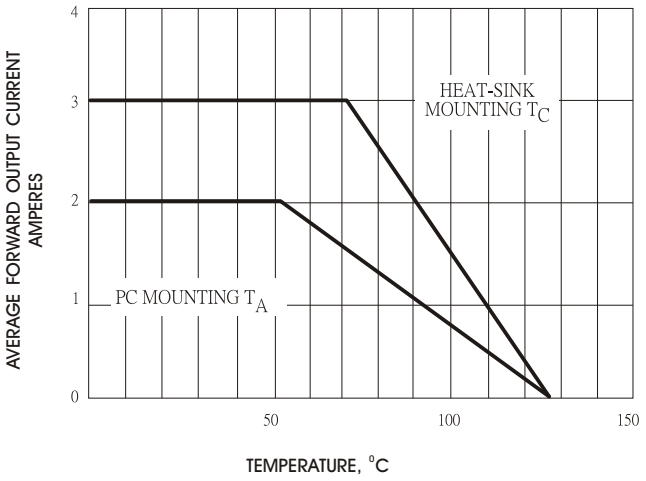

Fig. 3 - TYPICAL FORWARD
CHARACTERISTICS

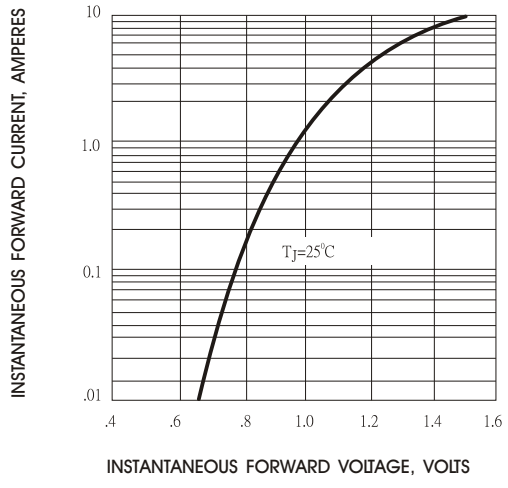

Fig. 4 - TYPICAL REVERSE
CHARACTERISTICS