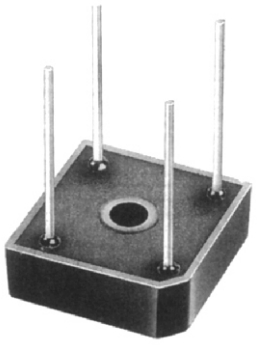
PB6 SERIES
KBPC6 SERIES

SINGLE-PHASE SILICON BRIDGE

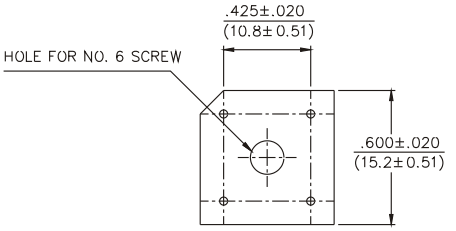
CHENG-YI
ELECTRONIC

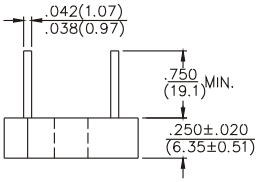


VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
3.0 Amperes

FEATURES

- Surge overload rating-150 amperese peak
- Low forward voltage drop
- Small size, simple installation
- Silver plated copper leads
- Mounting position:Any
- Plastic material has UL flammability
- classification 94V-0
- UL recognized file # E149311
- Lead solderable per MIL-STD-202 method 208
- Electrically isolated base 1800Volts





Polarity shown on side of case;
positive lead by beveled corner.

Dimensions in inches and (millimeters)

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%.

		PB605	PB61	PB62	PB64	PB66	PB68	PB610	UNITS
		KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	
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_A=50°C* Output Current @ T_A=50°C**	$V_{(AV)}$	8.0 6.0							A A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	150							A
Maximum DC Forward Voltage drop per element at 3.0A DC	V_F	1.1							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	64							A^2S
Typical Thermal Resistance	$R\theta JC$	8							°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
KBPC6 SERIES

Fig.1 - DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

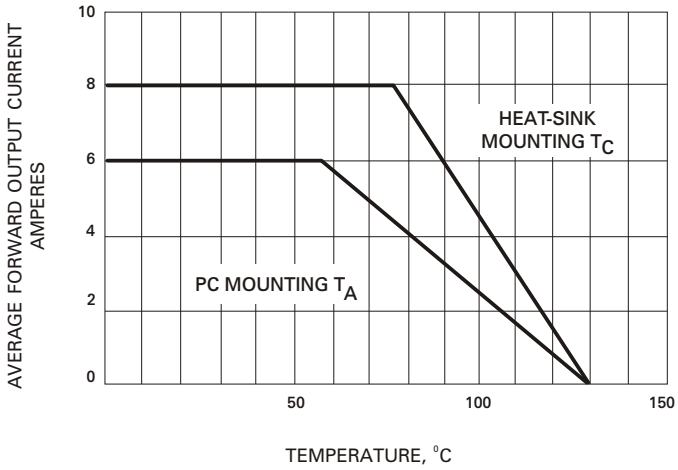

Fig.2 - TYPICAL REVERSE
CHARACTERISTICS

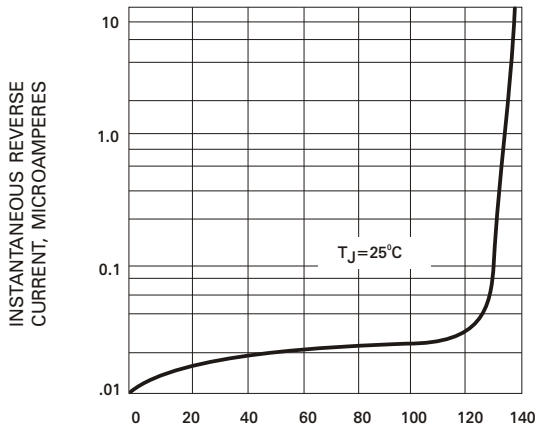

Fig.3 - MAXIMUM FORWARD SURGE CURRENT

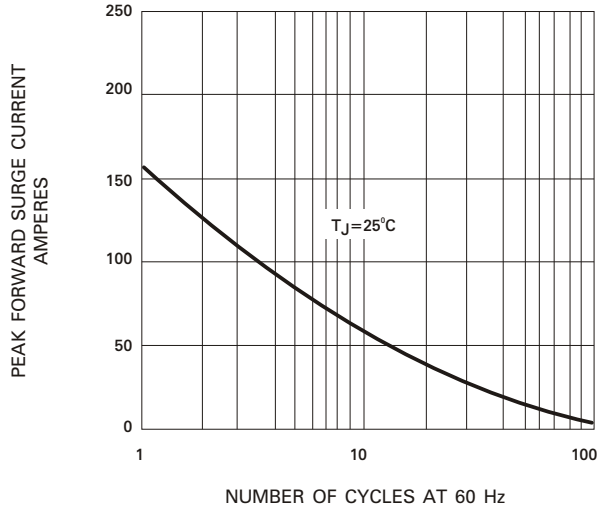

Fig.4 - TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS