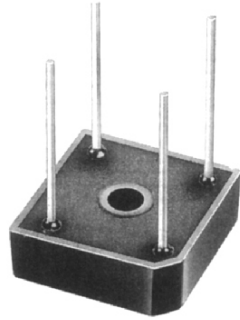


PB6 SERIES KBPC6 SERIES

SINGLE-PHASE SILICON BRIDGE



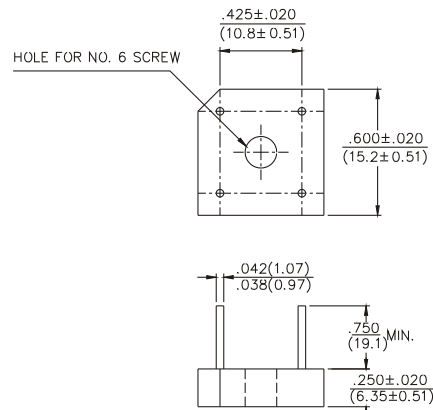
**CHENG-YI
ELECTRONIC**



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

VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
3.0 Amperes



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 Output Current	$V_{(AV)}$				8.0				A
					6.0				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 DC Blocking Voltage Per Element	I_R				10				μ A
					1				mA
I^2t Rating for fusing(t<8.3ms)	I^2t				64				A ² S
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

PB6 SERIES KBPC6 SERIES

SINGLE-PHASE SILICON BRIDGE



**CHENG-YI
ELECTRONIC**

RATING AND CHARACTERISTICS CURVES KBPC6 SERIES

Fig.1 - DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

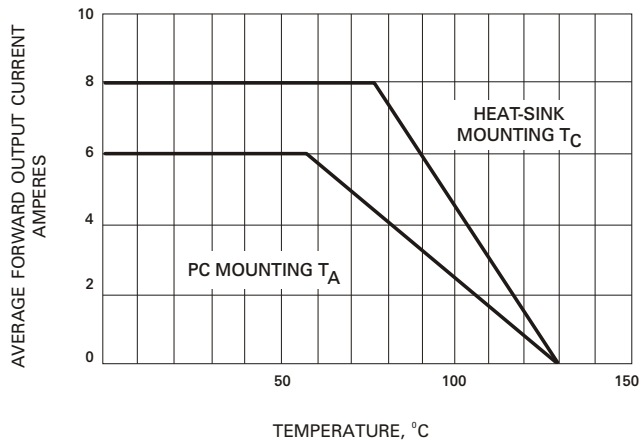


Fig.2 - TYPICAL REVERSE
CHARACTERISTICS

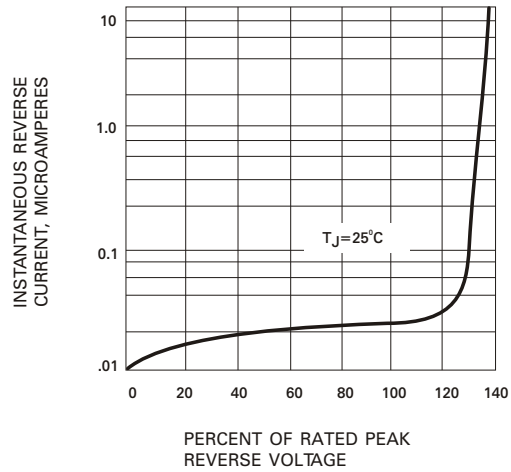


Fig.3 - MAXIMUM FORWARD SURGE CURRENT

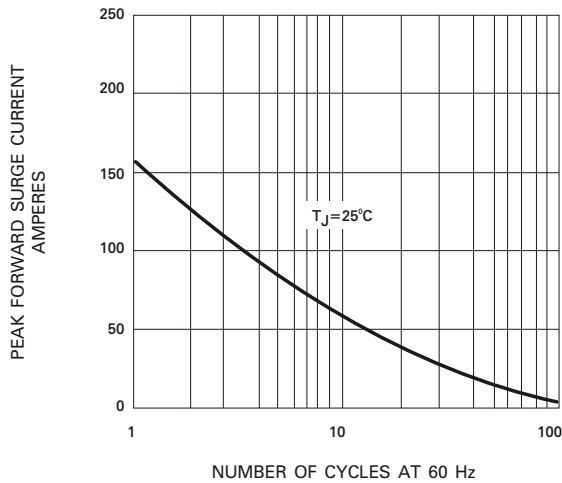


Fig.4 - TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

