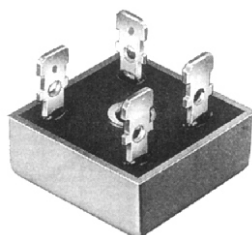


KBPC35 SERIES

SINGLE-PHASE SILICON BRIDGE



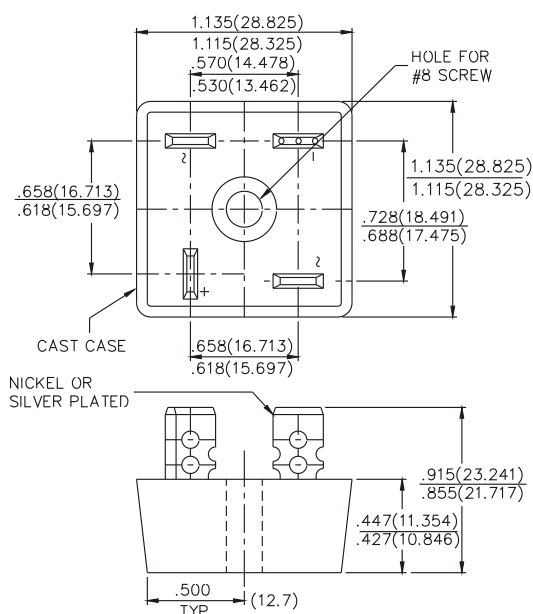
CHENG-YI
ELECTRONIC



FEATURES

- UL recognized file #E149311
- Surge overload rating-400 amperese peak
- Low forward voltage drop
- Solderable .25" FASTON terminals
- Mounting position:Any
- Electrically isolated base-1800Volts
- Materials used carries U/L recognized

VOLTAGE RANGE
50 TO 1000 VOLTS PRV
CURRENT
35 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60 Hz. For capacitive load, derate current by 20%.

		KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	UNITS
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}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_C=55^\circ\text{C}$	$V_{(AV)}$	35							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load(JEDEC Mehtod)	I_{FSM}	400							A
Maximum DC Forward Voltage drop per bridge element at 17.5A DC	V_F	1.2							V
Maximum DC Reverse Current at rated DC Blocking Voltage per bridge element	I_R	10 1							μA μA
$I^2 t$ Rating for fusing ($t < 8.3\text{ms}$)	$I^2 t$	664							A^2S
Typical Thermal Resistance(Note.1)	$R_{\theta JC}$	2.5							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

KBPC35 SERIES

SINGLE-PHASE SILICON BRIDGE



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RATING AND CHARACTERISTICS CURVES KBPC35 SERIES

Fig.1 - PAEK FORWARD SURGE CURRENT

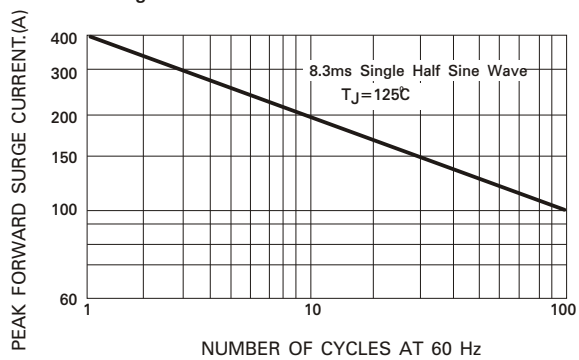


Fig.2 - DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

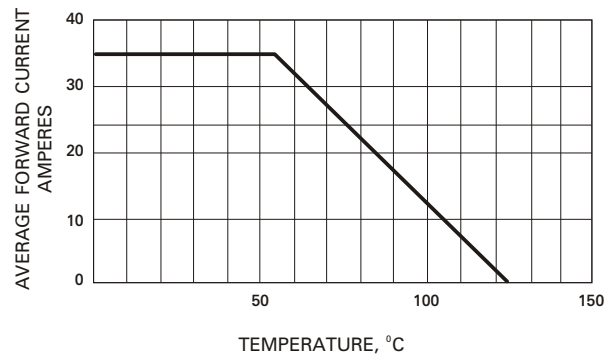


Fig.3 - TYPICAL FORWARD
CHARACTERISTICS

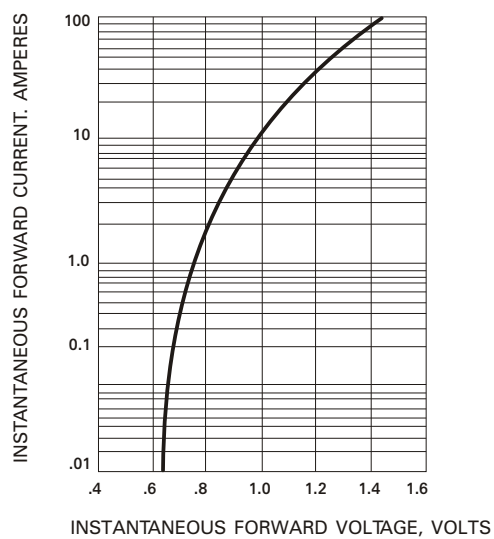


Fig.4 - TYPICAL REVERSE CHARACTERISTICS

