BR805 THRU BR810

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE：50-1000V **CURRENT：8.0A**

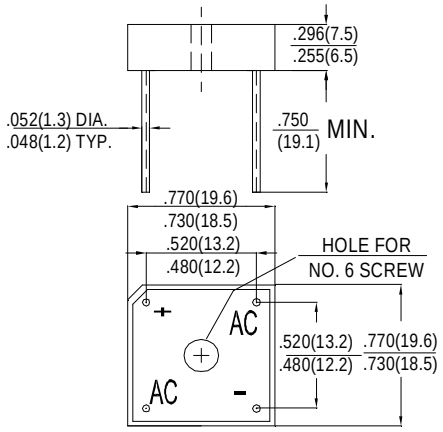
FEATURES

- Surge overload ratings-125 Amperes
- Low forward voltage drop

MECHANICAL DATA

- ***Case*:**Metal or plastic shell with plastic encapsulation
- ***Epoxy*:** UL 94V-0 rate flame retardant
- ***Lead*:** MIL-STD- 202E, Method 208 guaranteed
- ***Polarity*:** Symbols molded or marked on body
- ***Mounting:*** Thru hole for 6# screw
- ***Weight*:** 6.9 grams

KBPC-8/10



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%.

		SYMBOL	BR805	BR81	BR82	BR84	BR86	BR88	BR810	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 rectified Output Current at T_C=75°C		I_o	8.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I_{FSM}	250							A
Maximum Forward Voltage Drop per element at 4.0A DC		V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@ T_A=25°C	I_R	10							μA
	@ T_A=100°C		500							
I^2t Rating for Fusing (t<8.3ms)		I^2t	166							A^2S_{ec}
Typical Junction Capacitance (Note 1)		C_J	200							pF

Notes: 1.Measured at 1MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Ambient and fromjunction to lead mounted on P.C.B. with 0.5×0.5”(13×13mm) copper pads.

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