KBP005/RS201 THRU KBP10/RS207

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE：50-1000V **CURRENT：2.0A**

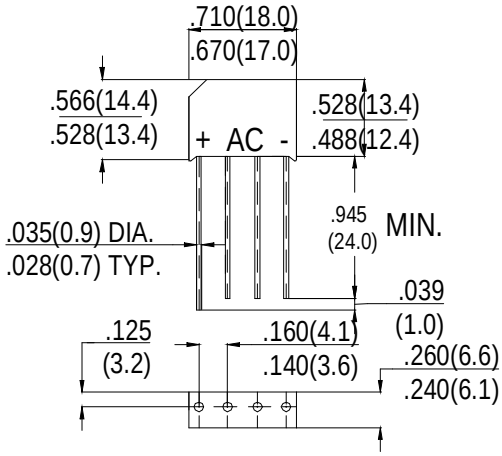
FEATURES

- Ideal for printed circuit board
- Surge overload ratings-50 Amperes

MECHANICAL DATA

- ***Case*:** Molded plastic
- ***Epoxy*:** UL 94V-0 rate flame retardant
- ***Lead*:** MIL-STD- 202E, Method 208 guaranteed
- ***Polarity*:** As marked
- ***Mounting position*:** Any
- ***Weight*:** 2.74 grams

RS-2



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	KBP005 RS201	KBP01 RS202	KBP02 RS203	KBP04 RS204	KBP06 RS205	KBP08 RS206	KBP10 RS207	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_A=50°C		I_o	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I_{FSM}	50							A
Maximum Forward Voltage Drop per element at 1.0A DC		V_F	1.0							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	10							A^2S
Typical Junction Capacitance (Note 1)		C_J	15							pF

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

2.Thermal Resistance from Junction to Ambient and form junction to leadmounted on P.C.B.with 0.47×0.47"(12×12mm) copper pads