RS501 THRU RS507

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE：50-1000V **CURRENT：5.0A**

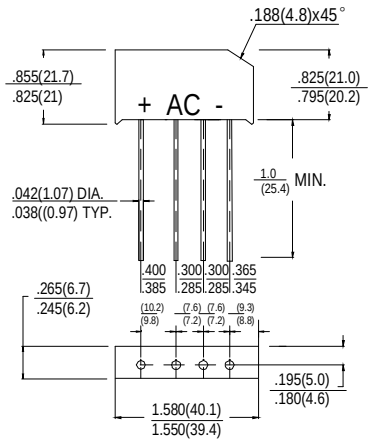
FEATURES

- Ideal for printed circuit board
- Surge overload ratings-150 Amperes

MECHANICAL DATA

- ***Case*****:** plastic encapsulation
- ***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-5



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	RS501	RS502	RS503	RS504	RS505	RS506	RS507	units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		V_{RMS}	46	88	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=75°C		I_o	5.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I_{FSM}	150							A
Maximum Forward Voltage Drop per element at 2.5A 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	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