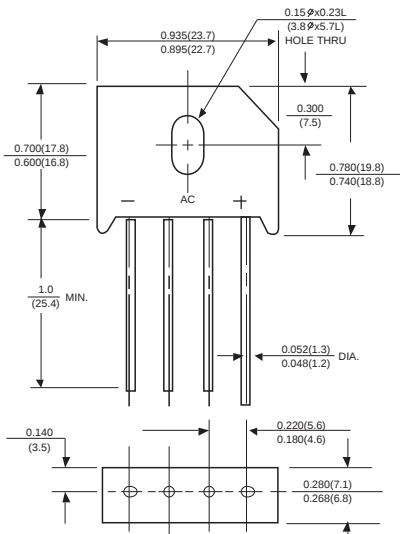


RS601 THRU RS607

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

RS-6



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Mounting: Thru hole for #6 serew, 5in.-lbs. torque max.

Weight: 0.3 ounce, 8.0 grams

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 current derate by 20%.

	SYMBOLS	RS601	RS602	RS603	RS604	RS605	RS606	RS607	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward output rectified current at T _A =100°C(Note 2) T _A =40°C(Note 3)	I _(AV)	6.0 6.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150.0							Amps
Rating for Fusing(t<8.3ms)	I ² _t	93							A ² s
Maximum instantaneous forward voltage drop per bridge element at 6.0A	V _F	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =100°C	I _R	10 1.0							uA mA
Typical Junction Capacitance (Note 1)	C _J	105							pF
Typical Thermal Resistance	R _{qJA}	4.7							°C/W
Operating junction temperature range	T _J	-65 to +150							°C
storage temperature range	T _{STG}	-65 to +150							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on 2.6" x 1.4" x 0.06" thick (6.3x3.5x0.15cm) Al. plate.

3. Unit mounted on P.C. board with 0.5" x 0.5" (12x12mm) copper pads, 0.375" (9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES RS601 THRU RS607

