



WILLAS



RS801
THRU
RS807

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

FEATURES

- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 250 amperes peak
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

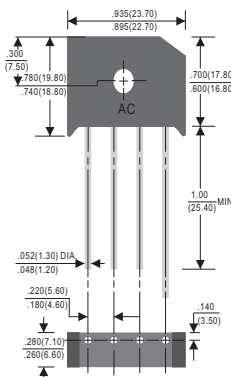
- * UL listed the recognized component directory, file #E195711
- * Epoxy: Device has UL flammability classification 94V-O
- * Moisture Sensitivity Level 1
- * **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



RS-6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RS801	RS802	RS803	RS804	RS805	RS806	RS807	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc = 75°C with heat sink	Io	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM	200							Amps
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RS801	RS802	RS803	RS804	RS805	RS806	RS807	UNITS
Maximum Forward Voltage Drop per element at 8.0A DC	VF	1.1							Volts
Maximum Reverse Current at Rated	IR	5							uAmps
DC Blocking Voltage per element		0.2							mAmps



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RATING AND CHARACTERISTIC CURVES

