

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 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

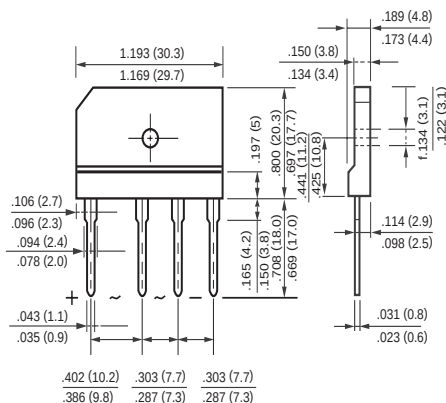
- * UL listed in the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-0

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-15M



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	RS1501M	RS1502M	RS1503M	RS1504M	RS1505M	RS1506M	RS1507M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Rectified Output Current at $T_c = 100^\circ\text{C}$ with heatsink	I_o	15							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	250							Amps
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150							$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	RS1501M	RS1502M	RS1503M	RS1504M	RS1505M	RS1506M	RS1507M	UNITS
Maximum Forward Voltage Drop per element at 7.5A DC	V_F	1.1							Volts
Maximum Reverse Current at Rated	I_R	10							μAmps
DC Blocking Voltage per element		0.2							mAmps

RATING AND CHARACTERISTIC CURVES (RS1501M THRU RS1507M)

