

**SINGLE-PHASE SILICON BRIDGE RECTIFIER**

**VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes**

**FEATURES**

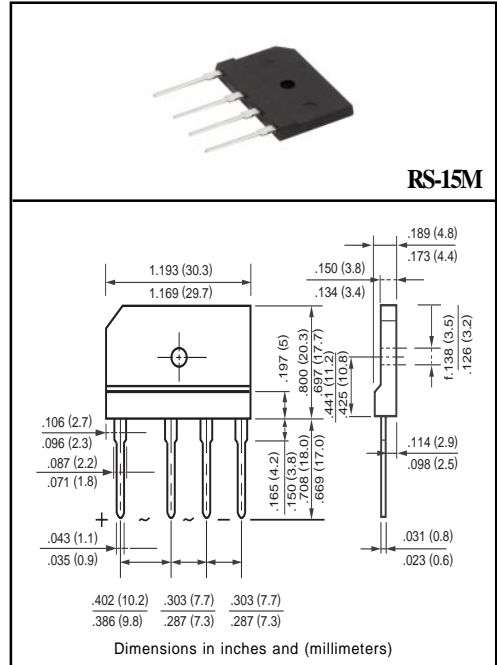
- \* Low leakage
- \* Low forward voltage
- \* Mounting position: Any
- \* Surge overload rating: 250 amperes peak
- \* Ideal for printed circuit boards
- \* High forward surge current capability

**MECHANICAL DATA**

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

**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%.



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

RATINGS	SYMBOL	RS1501M	RS1502M	RS1503M	RS1504M	RS1505M	RS1506M	RS1507M	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 = 100°C with heatsink	Io	15							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM	250							Amps
Typical Thermal Resistance from junction to ambient	RθJA	22							°C/W
Typical Thermal Resistance from junction to case	RθJC	1.5							
Typical Thermal Resistance from junction to lead	RθJL	5							
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							°C

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

CHARACTERISTICS	SYMBOL	RS1501M	RS1502M	RS1503M	RS1504M	RS1505M	RS1506M	RS1507M	UNITS
Maximum Forward Voltage Drop per element at 7.5A DC	VF	1.1							Volts
Maximum Reverse Current at Rated	IR	5.0							uAmps
DC Blocking Voltage per element		0.2							mAmps

# RATING AND CHARACTERISTIC CURVES (RS1501M THRU RS1507M)

