

**SINGLE-PHASE SILICON BRIDGE RECTIFIER**

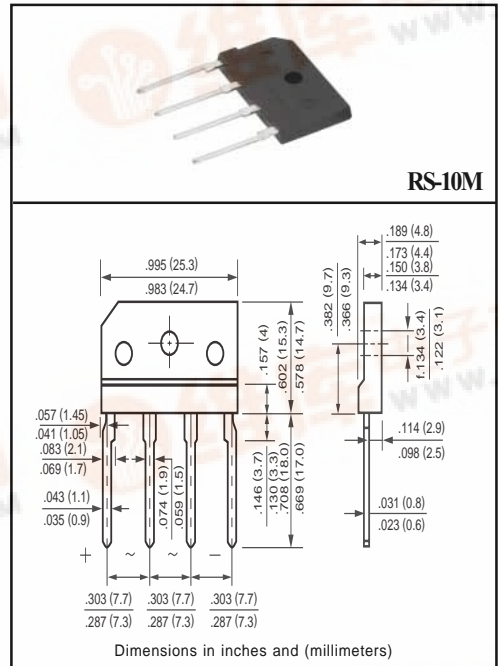
**VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes**

**FEATURES**

- \* Low leakage
- \* Low forward voltage
- \* Mounting position: Any
- \* Surge overload rating: 200 amperes peak
- \* Silver-plated copper leads

**MECHANICAL DATA**

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



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

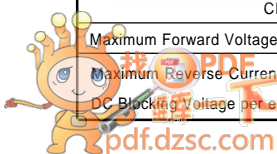
Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

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

RATINGS	SYMBOL	RS1001M	RS1002M	RS1003M	RS1004M	RS1005M	RS1006M	RS1007M	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	10							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	RS1001M	RS1002M	RS1003M	RS1004M	RS1005M	RS1006M	RS1007M	UNITS	
Maximum Forward Voltage Drop per element at 5.0A DC	VF	1.1								Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	@TA = 25°C	10								uAmps
	@Tc = 100°C	0.2								mAmps



# RATING AND CHARACTERISTIC CURVES (RS1001M THRU RS1007M)

