

SINGLE-PHASE SILICON BRIDGE RECTIFIER
VOLTAGE RANGE 50 to 1000 Volts CURRENT 20 Amperes
FEATURES

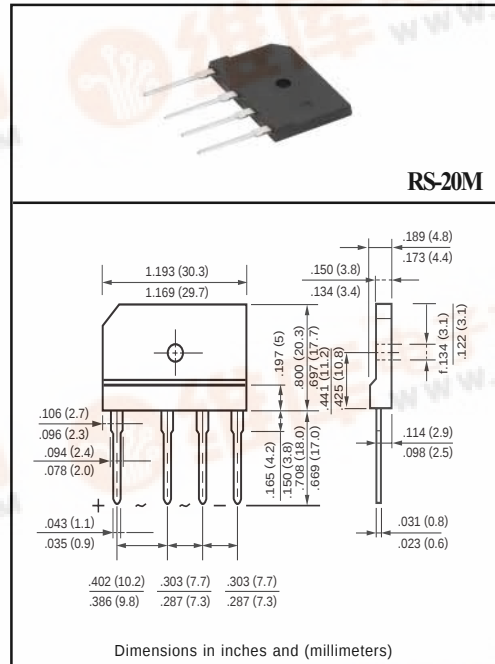
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 300 amperes peak
- * Ideal for printed circuit boards
- * High forward surge current capability

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	RS2001M	RS2002M	RS2003M	RS2004M	RS2005M	RS2006M	RS2007M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	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 Tc = 100°C with heatsink	I _O	20							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	300							Amps
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

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

CHARACTERISTICS	SYMBOL	RS2001M	RS2002M	RS2003M	RS2004M	RS2005M	RS2006M	RS2007M	UNITS
Maximum Forward Voltage Drop per element at 10A DC	V _F	1.1							Volts
Maximum Reverse Current at Rated	I _R	10							uAmps
DC Blocking Voltage per element		0.2							mAmps

RATING AND CHARACTERISTIC CURVES (RS2001M THRU RS2007M)

