

RS2508M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER **VOLTAGE RANGE 1200 Volts CURRENT 25 Amperes**

FEATURES

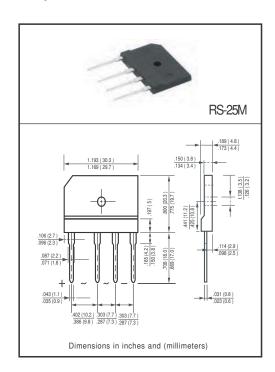
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 300 amperes peak
- * Ideal for printed cikcuit boakds
- * High forward surge current capability

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.



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

RATINGS		RS2508M	UNITS
Maximum Recurrent Peak Reverse Voltage		1200	Volts
Maximum RMS Voltage		840	Volts
Maximum DC Blocking Voltage		1200	Volts
Maximum Average Forward Rectified with heatsink Current at T _C =55°C without heats	l。		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		300	Amps
Typical Current Squared Time		373.3	A ² S
Insulation voltage		3000	Volts
Typical Thermal Resistance (Note 1)	Rejc	1.0	°C/W
Typical Thermal Resistance (Note 1)		22	°C/W
Operating Temperature Range		150	°C
Storage Temperature Range		-55 to + 150	°C

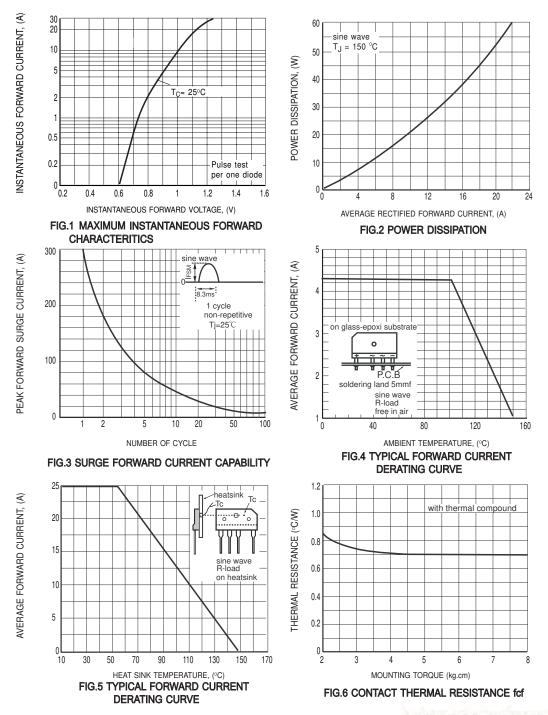
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS		RS2508M	UNITS
Maximum Forward Voltage at 12.5A DC	VF	1.05	Volts
Maximum DC Average Reverse Current at @TA = 25°C	la la	0.5	uAmps
Rated DC Blocking Voltage @TA = 125°C	7 ^{IR}	200	uAmps

NOTES: 1. Thermal resistance: Heat-sink case mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

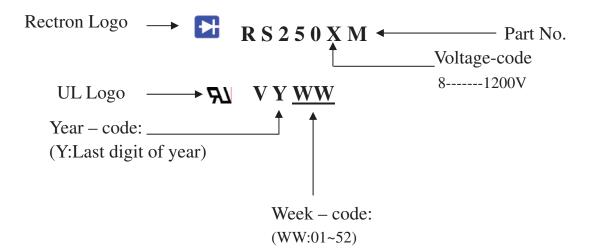
2017-11 REV:0

RATING AND CHARACTERISTICS CURVES (RS2508M)





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
RS-25M	-B	300	230*190*46	410*243*157	1,800	13.37

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RS-25M	-C	600	490*135*110	510*293*131	1,200	13.12



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