

RS1001MLS THRU RS1007MLS

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes

FEATURES

- * Low leakage
- * Low forward voltage
- Mounting position : Any
 Surge overload rating: 150 Amperes peak
 Ideal for printed circuit boards
- * MSL: Level 1

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



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

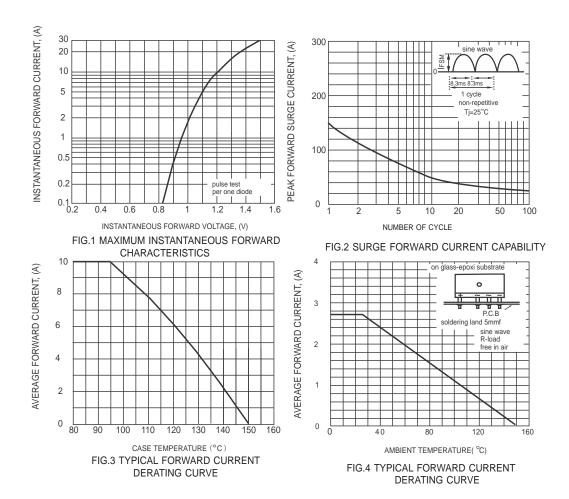
MAXIMOM CHARACTERIOTICS (@ TA = 25 0 diliess of		,							
CHARACTERISTICS	SYMBOL	RS1001MLS	RS1002MLS	RS1003MLS	RS1004MLS	RS1005MLS	RS1006MLS	RS1007MLS	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=95 ° C degree with heatsink	lo	10					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM	150						Amps	
Typical Current Square Time	I ² T	93.37					A ² S		
Insulation voltage	Viso	3000					Volts		
Typical Thermal Resistance from junction to ambient	RθJA	28					°C/W		
Typical Thermal Resistance from junction to case	RθJC	2.8						C/VV	
Operating and Storage Temperature Range	TJ,TsTG	-55 to + 150					°C		

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

CHARACTERISTICS		SYMBOL	RS1001MLS	RS1002MLS	RS1003MLS	RS1004MLS	RS1005MLS	RS1006MLS	RS1007MLS	UNITS
Maximum Forward Voltage Drop per ele	ment at 5.0A DC	VF	1.1				Volts			
Maximum Reverse Current at Rated	@TA=25 °C	IR	0.2							μAmps
	@TC=100 °C	IK	50							μAmps

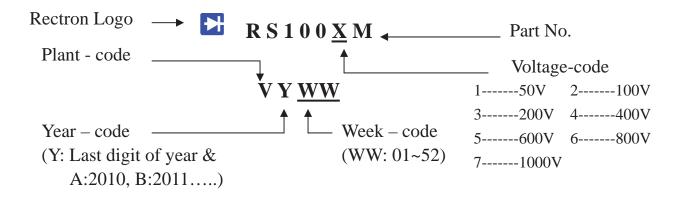
Note: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTICS CURVES (RS1001MLS THRU RS1007MLS)

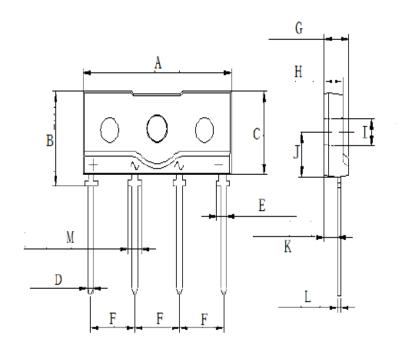




Marking Description



RS-10MLS



Dimensions in inches and millimeters

_		_				
Dim	Min	Max				
Α	24.7	25.3				
В	11.4	12.0				
С	10.0	10.6				
D	0.9	1.1				
E	1.75(MAX)					
F	7.3	7.7				
G	3.9	4.5				
Н	2.9	3.9				
I	3.1	3.4				
J	5.4	6.0				
K	2.0	2.6				
L	0.4	0.6				
М	2.1	2.3				



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-10MLS	-B	250	300*138*35	319*296*165	2000	9.7



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