

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes

FEATURES

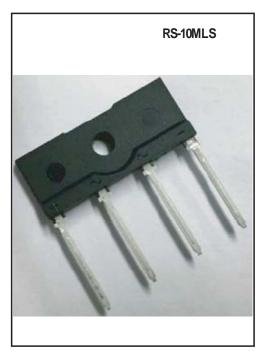
- * Low leakage * Low forward voltage
- Mounting position : Any
 Surge overload rating: 150 Amperes peak
 Ideal for printed circuit boards
- * MSL: Level 1

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.

RS1001MLS THRU RS1007MLS



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

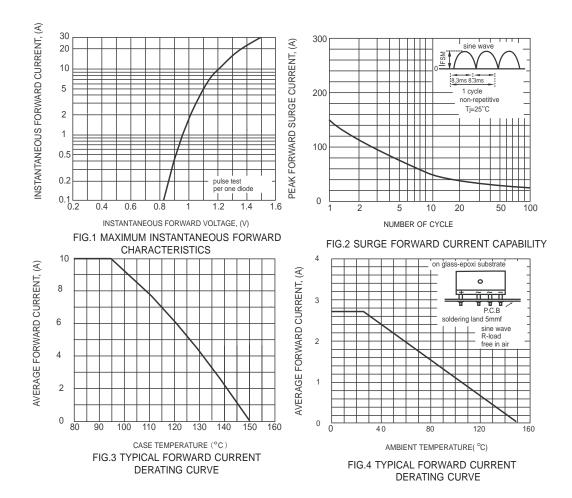
CHARACTERISTICS	SYMBOL	RS1001MLS	RS1002MLS	RS1003MLS	RS1004MLS	RS1005MLS	RS1006MLS	RS1007MLS	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=95 $^\circ$ 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	R0ja	28						°C/W	
Typical Thermal Resistance from junction to case	R0jc	2.8					C/W		
Operating and Storage Temperature Range	Тј,Тѕтс	-55 to + 150					°C		

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

CHARACTERIST	TICS	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
DC Blocking Voltage per element	@TC=100 °C	IK	50							μ Amps
						0047.05				

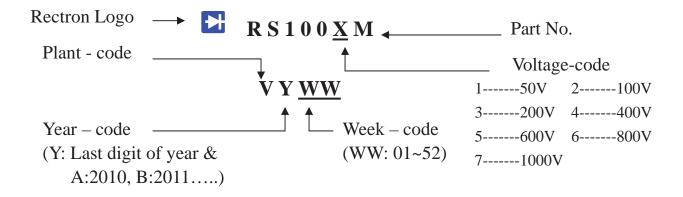
Note: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

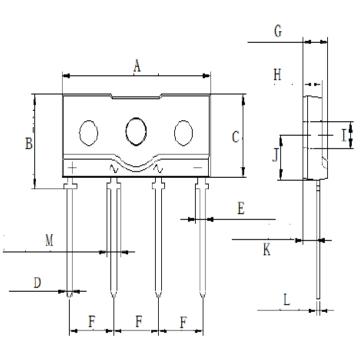
RATING AND CHARACTERISTICS CURVES (RS1001MLS THRU RS1007MLS)





Marking Description





Dimensions in inches and millimeters

+						
Dim	Min	Max				
А	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				
К	2.0	2.6				
L	0.4	0.6				
М	2.1	2.3				

CRECTRON —

RS-10MLS

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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