

## **RS1001MLS THRU RS1007MLS**

### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

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

### **FEATURES**

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

- \* MSL: Level 1

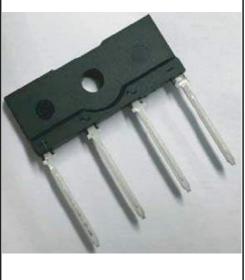
#### **MECHANICAL DATA**

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



Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. resistive or inductive load.





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

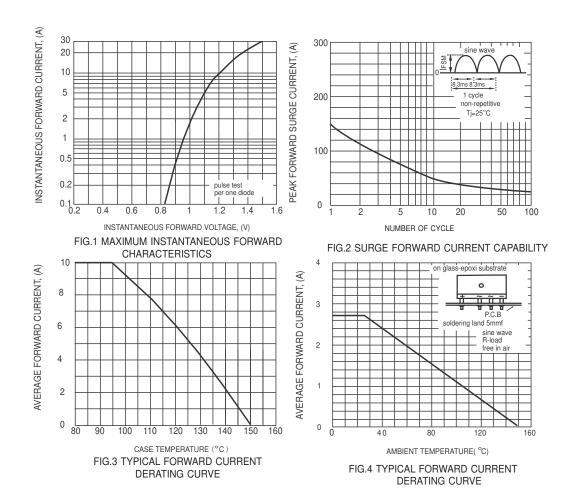
CHARACTERISTICS	SYMBOL	DS1001MLS	RS1002MLS	RS1003MLS	BS1004MI S	DS1005MI S	DS1006MI S	RS1007MLS	UNITS
CHARACTERISTICS	STIVIDOL	TIGTOUTIVIES	TIGTOOZIVIEG	TIOTOUSIVILO	110100410120	110 TOOSIVILO	TIOTOUGIVILO	TIO TOO / WILD	OINITO
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
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 <sup>2</sup> T	93.37						A <sup>2</sup> S	
Insulation voltage	Viso	3000						Volts	
Typical Thermal Resistance from junction to ambient	Rθja	28						°C/W	
Typical Thermal Resistance from junction to case	Rejc	2.8						O/W	
Operating and Storage Temperature Range	TJ,TsTG	-55 to + 150					°C		

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

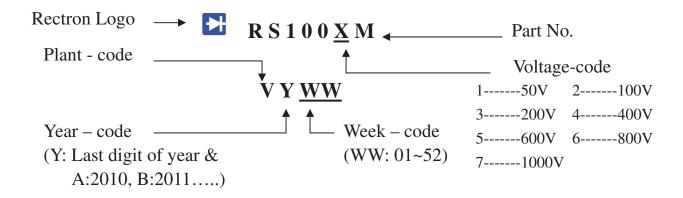
CHARACTERISTICS SYMI			RS1001MLS	RS1002MLS	RS1003MLS	RS1004MLS	RS1005MLS	RS1006MLS	RS1007MLS	UNITS
Maximum Forward Voltage Drop per ele	ment at 5.0A DC	VF	1.1					Volts		
Maximum Reverse Current at Rated DC Blocking Voltage per element	@TA=25 °C	IR	0.2							μAmps
	@TC=100 °C	IK.	50							μ Amps

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

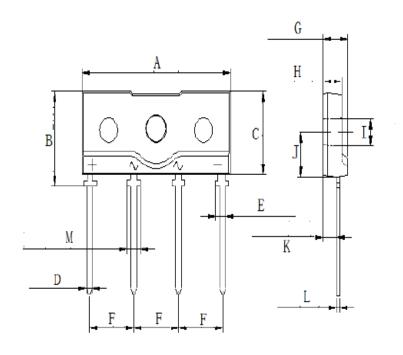
### RATING AND CHARACTERISTICS CURVES (RS1001MLS THRU RS1007MLS)



## **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				
Е	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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