

# **RS2001MLS THRU RS2007MLS**

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

**VOLTAGE RANGE 50 to 1000 Volts CURRENT 20Amperes** 

### **FEATURES**

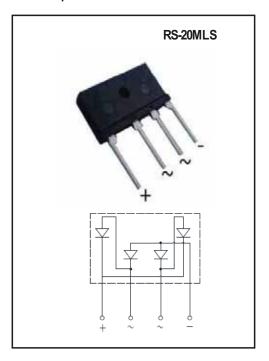
- \* Low leakage
- \* Low forward voltage
- Mounting position : Any
  Surge overload rating: 240 Amperes peak
  Ideal for printed circuit boards
- \* MSL: Level 1

#### **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 )

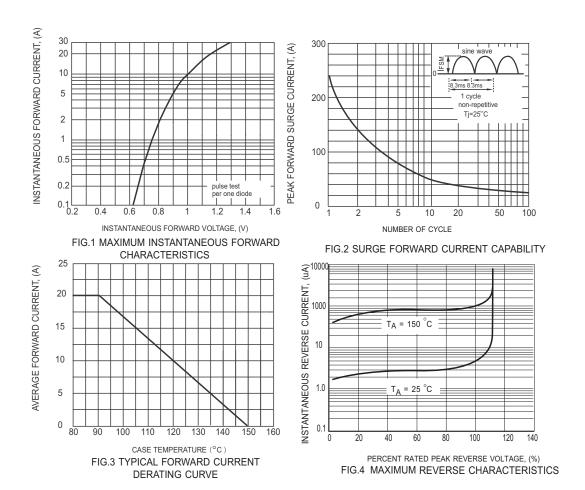
CHARACTERISTICS	SYMBOL	RS2001MLS	RS2002MLS	RS2003MLS	RS2004MLS	RS2005MLS	RS2006MLS	RS2007MLS	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=90 °C degree with heatsink	lo	20						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM	240						Amps	
Typical Current Square Time	I <sup>2</sup> T	239						A <sup>2</sup> S	
Insulation voltage	Viso	3000						Volts	
Typical Thermal Resistance from junction to ambient	RθJA	13					°C/W		
Typical Thermal Resistance from junction to case	RθJC	1.4					C/VV		
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150					°C		

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

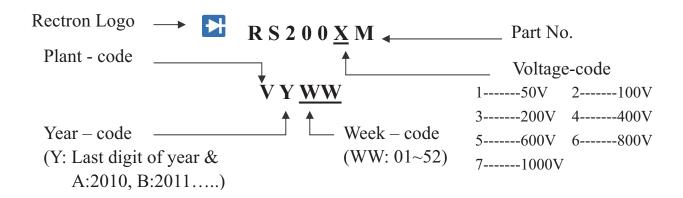
ELECTRICAL CHARACTERISTICS ( @ 1A - 25 O utilies outletwise floted )										
CHARACTERIST	CHARACTERISTICS SYMB		RS2001MLS	RS2002MLS	RS2003MLS	RS2004MLS	RS2005MLS	RS2006MLS	RS2007MLS	UNITS
Maximum Forward Voltage Drop per ele	ment at 10A DC	VF	1.0				Volts			
Maximum Reverse Current at Rated @TA=25 °C		IR	5.0						μAmps	
DC Blocking Voltage per element	@TA=150 °C	IK	1.0						mAmps	

2019-06/47 Note: "ROHS compliant". REV: 0

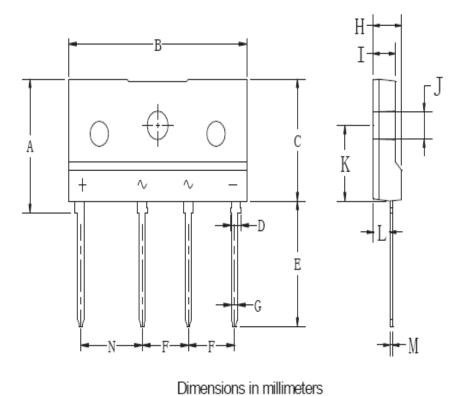
# RATING AND CHARACTERISTICS CURVES ( RS2001MLS THRU RS2007MLS )



# **Marking Description**



# RS-20MLS



Dim	Min	Max		
Α	15.6	16.2		
В	28.7	29.3		
С	14.2	14.8		
D	1.5	1.7		
E	14.6	15.2		
F	7.3	7.7		
G	0.9	1.1		
Н	4.3	4.9		
I	3.3	3.9		
J	3.1	3.4		
K	8.7	9.3		
L	2.5	2.9		
М	0.4	0.6		
N	9.8	10.2		

# 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-20MLS	-B	250	300*138*35	319*296*165	2000	9.7	



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