

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

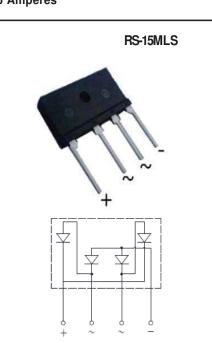
VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes

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



RS1501MLS

THRU

RS1507MLS

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

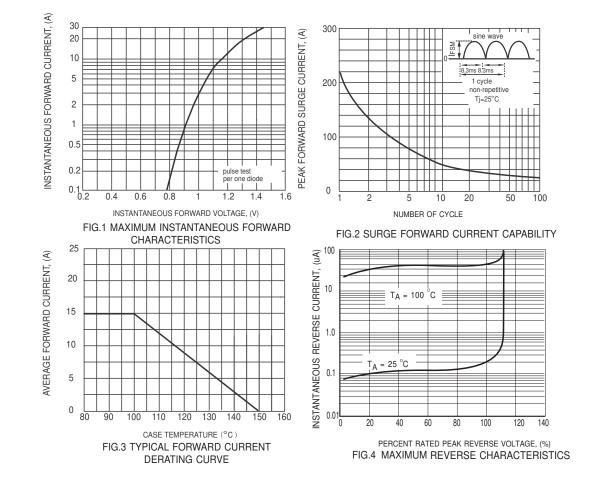
MAXIMUM CHARACTERISTICS (@ TA = 25° C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RS1501MLS	RS1502MLS	RS1503MLS	RS1504MLS	RS1505MLS	RS1506MLS	RS1507MLS	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=100 $^\circ$ C degree with heatsink	lo	15						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	IFSM	220						Amps	
Typical Current Square Time	I ² T	200						A ² S	
Insulation voltage	Viso	3000						Volts	
Typical Thermal Resistance from junction to ambient	R0ja	22						°C/W	
Typical Thermal Resistance from junction to case	R0jc	1.5					C/W		
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150					°C		

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

CHARACTERISTICS SYMBOL		RS1501MLS	RS1502MLS	RS1503MLS	RS1504MLS	RS1505MLS	RS1506MLS	RS1507MLS	UNITS
Maximum Forward Voltage Drop per ele	ment at 7.5A DC	VF	1.1					Volts	
Maximum Reverse Current at Rated @TA=25 °C		IB	0.2					μAmps	
DC Blocking Voltage per element	@TA=100 °C	IN	50						μ Amps
Vote: "Fully ROHS compliant", "100% Sn plating (Pb-free)". 2					2017-05				

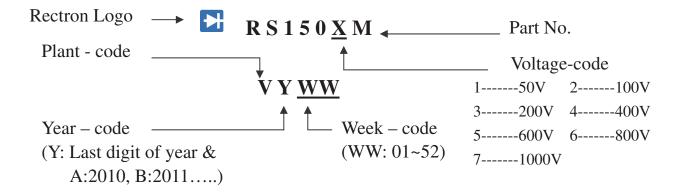
Note: "Fully ROHS compliant", "100% Sn plating (Pb-free)".



RATING AND CHARACTERISTICS CURVES (RS1501MLS THRU RS1507MLS)

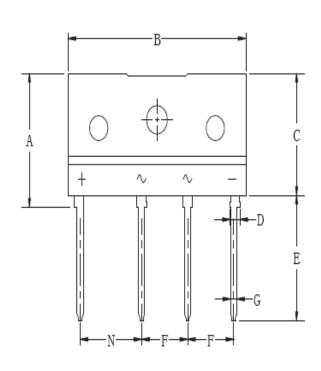


Marking Description



CRECTRON





Dimensions in millimeters

Н·

Ι

K

-L

--M

·J

Dim	Min	Max
А	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
К	8.7	9.3
L	2.5	2.9
М	0.4	0.6
N	9.8	10.2

ERECTRON ----

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-15MLS	-B	250	300*138*35	319*296*165	2000	9.7



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