

**SINGLE-PHASE GLASS PASSIVATED  
SILICON BRIDGE RECTIFIER**  
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

**FEATURES**

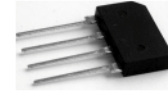
- \* Low leakage
- \* Low forward voltage
- \* Low cost
- \* Mounting position: Any

**MECHANICAL DATA**

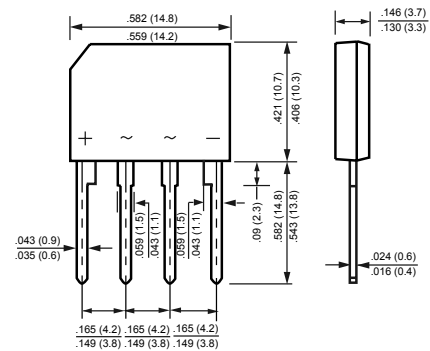
- \* Epoxy: Device has UL flammability classification 94V-O

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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



**RS-1M**



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ T<sub>A</sub>=25 °C unless otherwise noted)

RATINGS	SYMBOL	RS101M	RS102M	RS103M	RS104M	RS105M	RS106M	RS107M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 50°C	I <sub>O</sub>	1.0							Amps
Insulation voltage	Viso	3000							Volts
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30							Amps
Current Squared Time	I <sup>2</sup> T	3.7							A <sup>2</sup> /Sec
Typical Thermal Resistance (Note 1)	R <sub>θJC</sub>	15							°C/W
	R <sub>θJA</sub>	50							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150							°C

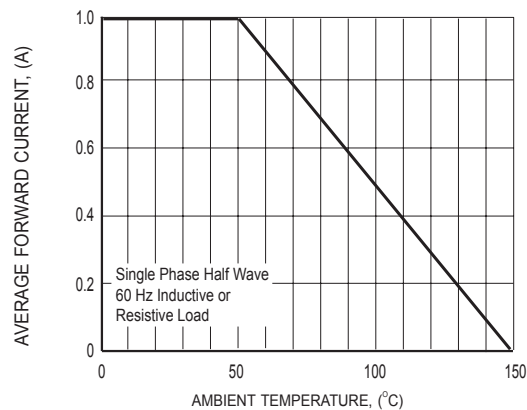
ELECTRICAL CHARACTERISTICS (@ T<sub>A</sub>=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RS101M	RS102M	RS103M	RS104M	RS105M	RS106M	RS107M	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	I <sub>R</sub>	2.0							uAmps
	@T <sub>A</sub> = 100°C		200							

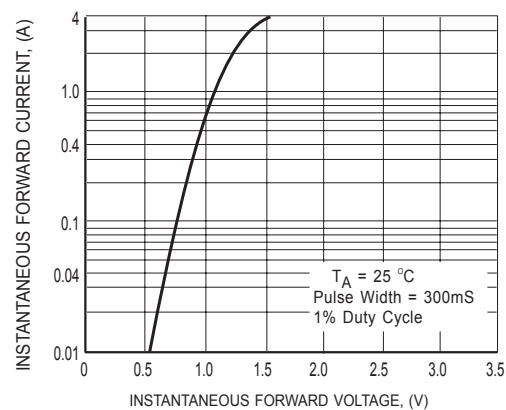
- NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.  
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".  
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2016-12  
REV:C

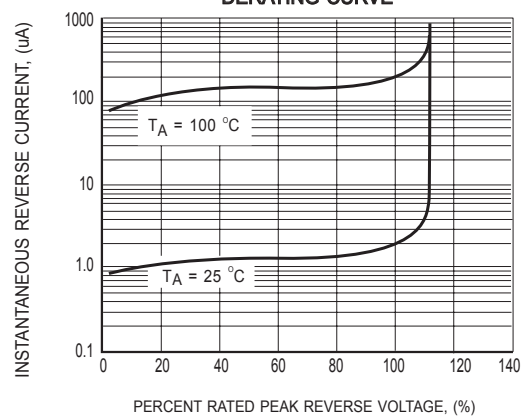
## RATING AND CHARACTERISTICS CURVES ( RS101M THRU RS107M )



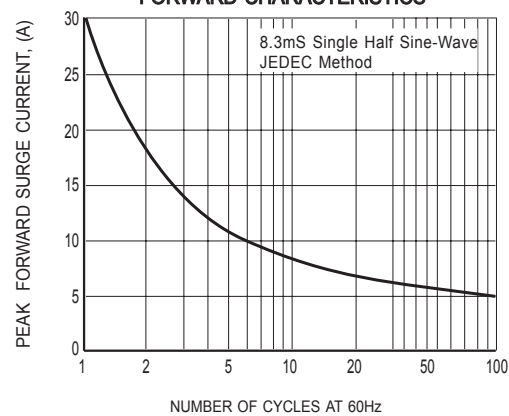
**FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE**



**FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**

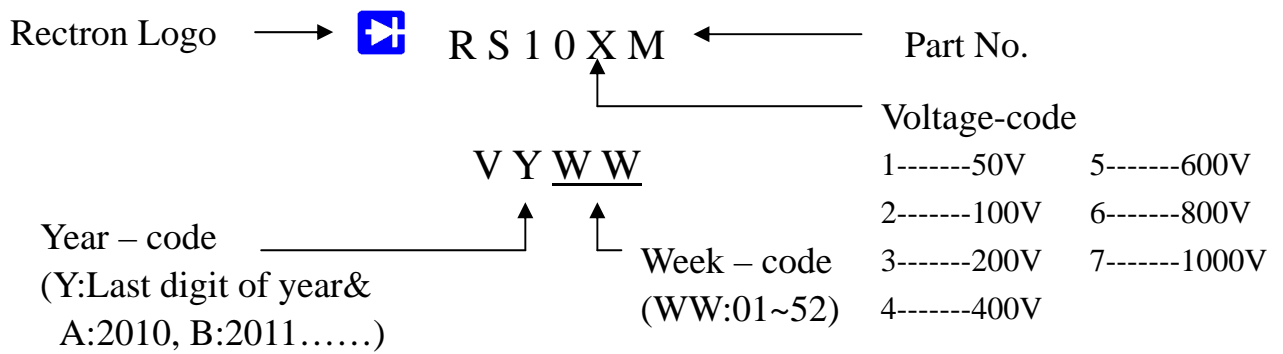


**FIG.3 TYPICAL REVERSE CHARACTERISTICS**



**FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**

### Marking Description



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

## TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RS-1M	-C	1,350	540*118*118	560*259*144	2,700	12.03

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