# **Surface Mount Glass Passivated Rectifier**





### Features:

- · Glass passivated chip
- · For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- · Plastic material has UL flammability classification 94V-0

### **Mechanical Data:**

Case : Molded Plastic

Polarity : Indicated by cathode band Weight : 0.002 ounces, 0.053 grams

Mounting Position : Any

Reverse Voltage : 50 to 1000 Volts Forward Current : 1 Ampere

### **Maximum Ratings and Electrical Characteristics:**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	S1A+	S1B+	S1D+	S1G+	S1J+	S1K+	S1M+	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	
Max. RMS Voltage	VRMS	35	70	140	280	420	560	700	\ \ \
Max. DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	
Max. Average Forward Rectified Current TA= 50°C	I(AV)				1				
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	30					A		
Peak Forward Voltage at 1.0A DC	VF				1.1				V
Max. DC Reverse Current at TA = 25°C Rated DC Blocking Voltage at TA = 100°C	l <sub>R</sub>	5 100					μΑ		
Typical Junction Capacitance (Note 1)	Cı	10			pF				
Typical Thermal Resistance (Note 2)	Rejc	30			°C/W				
Operating Temperature Range	TJ	-55 to +150					°C		
Storage Temperature Range	Тѕтс								

#### Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance junction to ambient.
- 3. The typical data above is for reference only

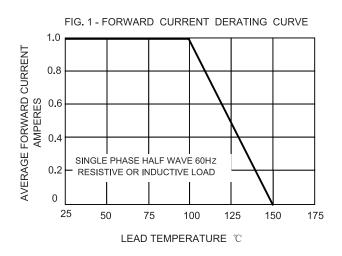
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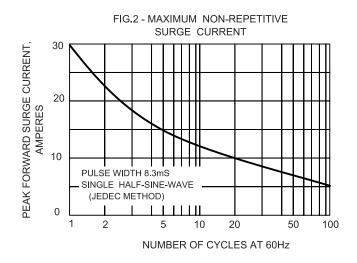


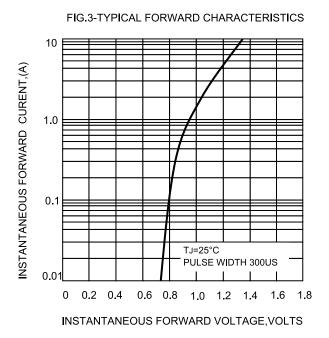
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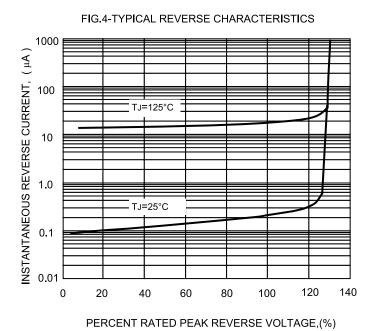


## **Ratings and Characteristic Curves**





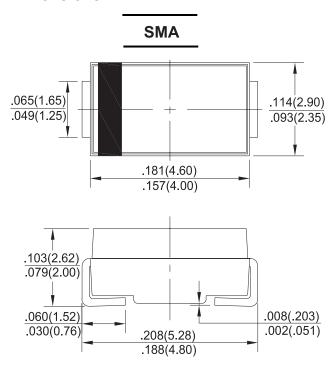




# **Surface Mount Glass Passivated Rectifier**



### **Dimensions:**



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number		
Surface Mount Glass Passivated Rectifiers	S1A+		
	S1B+		
	S1D+		
	S1G+		
	S1J+		
	S1K+		
	S1M+		

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