Surface Mount Fast Recovery Glass Passivated Rectifier





Features:

- · Fast switching for high efficiency
- · Low cost
- Diffused junction
- · Low reverse leakage current
- · Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 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	RS1A+	RS1B+	RS1D+	RS1G+	RS1J+	RS1M+	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	1000	
Max. RMS Voltage	VRMS	35	70	140	280	420	700	v
Max. DC Blocking Voltage	VDC	50	100	200	400	600	1000	
Max. Average Forward Rectified Current @T A=75°C	l(AV)	1.0						
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	İFSM	30					A	
Peak Forward Voltage at 1A DC	VF	1.3				V		
Max. DC Reverse Current at TA = 25°C Rated DC Blocking Voltage at TA = 125°C	lr	5 100					μA	
Maximum Reverse Recovery Time (Note 1)	Trr		1	50		250	500	nS
Typical Junction Capacitance (Note 2)	Сл	25 15			5	pF		
Typical Thermal Resistance (Note 3)	Reja	25				°C/W		
Operating Temperature Range	TJ	-55 to +150				°C		
Storage Temperature Range	Тѕтс	-55 to +150					°C	

Notes:

- 1. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient.
- 4. The typical data above is for reference only

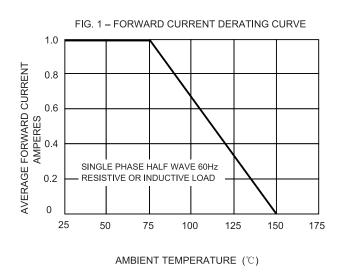
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Ratings and Characteristic Curves



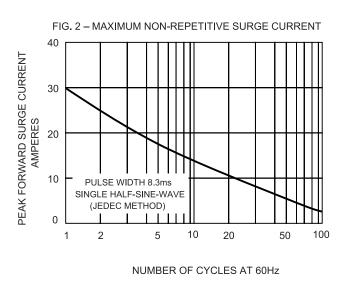


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

100

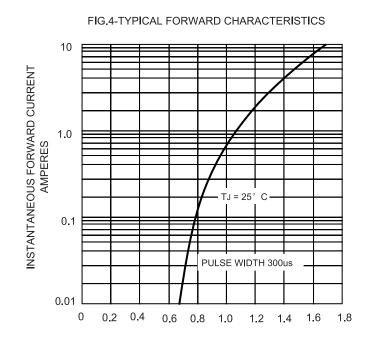
RS1A - RS1G+

RS1J - RS1M+

TJ = 25° C, f = 1MHz

1.0

REVERSE VOLTAGE, VOLTS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

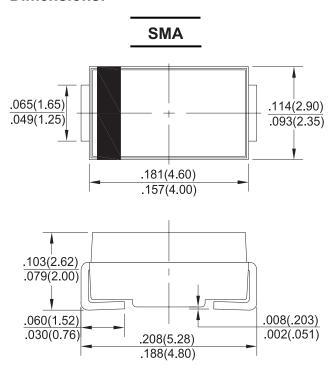
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Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number		
	RS1A+		
	RS1B+		
Surface Mount Fast Recovery Glass Passivated Rectifiers	RS1D+		
	RS1G+		
	RS1J+		
	RS1M+		

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