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 : Colour band denotes cathode Weight : 0.007 ounces, 0.21 grams

Mounting Position : Any

Reverse Voltage : 100 to 1000 Volts Forward Current : 3 Amperes

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	RS3B+	RS3G+	RS3M+	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	100	400	1000	
Max. RMS Voltage	VRMS	70	280	700	V
Max. DC Blocking Voltage	VDC	100	400	1000	
Max. Average Forward Rectified Current TA= 50°C	I(AV)	3			
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	100			A
Peak Forward Voltage at 3A DC	VF	1.3			V
Max. DC Reverse Current at $T_A = 25^{\circ}C$ Rated DC Blocking Voltage at $T_A = 100^{\circ}C$	lR	5 100			μA
Max. Reverse Recovery Time (Note 1)	Trr	1:	50	500	nS
Typical Junction Capacitance (Note 2)	Cı	6	5	40	pF
Typical Thermal Resistance (Note 3)	Reja	15		°C/W	
Operating Temperature Range	TJ	-55 to +150		°C	
Storage Temperature Range	Тѕтс				

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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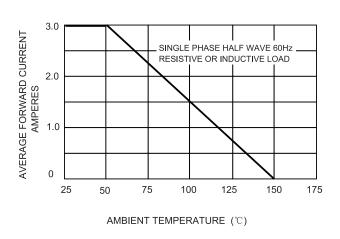


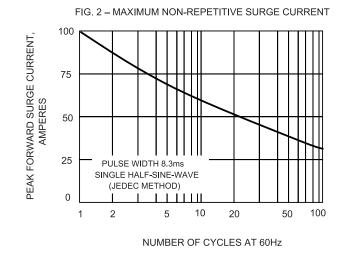
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Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE







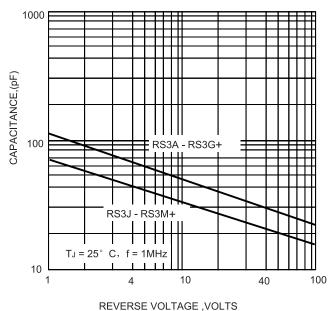
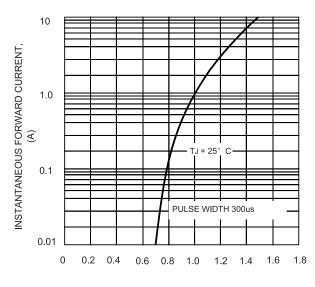


FIG.4-TYPICAL FORWARD CHARACTERISTICS

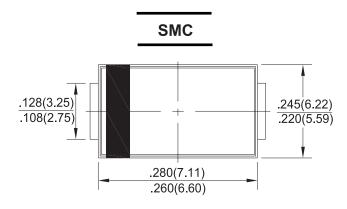


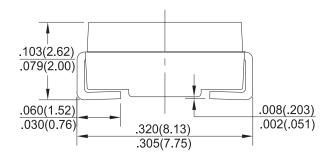
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

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Dimensions:





Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number		
Surface Mount Fast Recovery Glass Passivated Rectifiers	RS3B+		
	RS3G+		
	RS3M+		

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