## Surface Mount Fast Recovery Glass Passivated Rectifier

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#### 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	: 800 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		Values	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	800	
Max. RMS Voltage	Vrms	560	V
Max. DC Blocking Voltage	VDC	800	
Max. Average Forward Rectified Current @T A=75°C I(AV) 1		1	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	30	
Peak Forward Voltage at 1A DC	Vf	1.3	V
Max. DC Reverse Current at $T_A = 25^{\circ}C$ Rated DC Blocking Voltage at $T_A = 125^{\circ}C$	lr	5 100	μA
Maximum Reverse Recovery Time (Note 1)	Trr	500	nS
Typical Junction Capacitance (Note 2)	CJ	15	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.

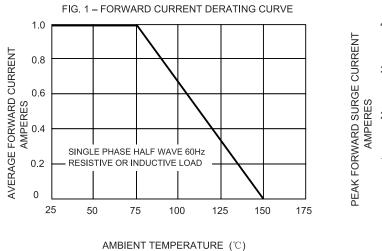
- 3. Thermal resistance junction to ambient.
- 4. The typical data above is for reference only

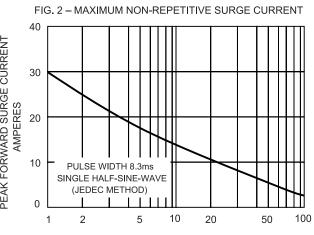
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### **Ratings and Characteristic Curves**





NUMBER OF CYCLES AT 60Hz

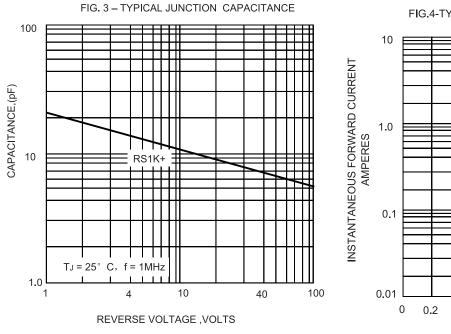
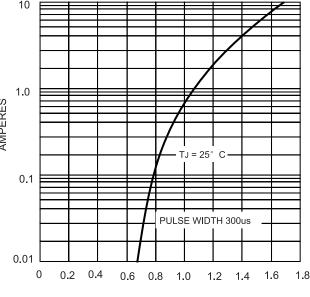


FIG.4-TYPICAL FORWARD CHARACTERISTICS



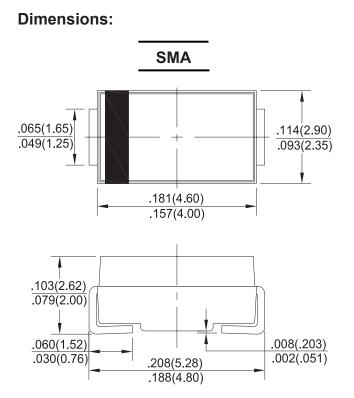
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

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### Surface Mount Fast Recovery Glass Passivated Rectifier

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Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number
Surface Mount Fast Recovery Glass Passivated Rectifiers, 1A 800V SMA	RS1K+

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