

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	: 0.003 ounces, 0.093 grams
Mounting Position	: Any
Reverse Voltage	: 50 to 800 Volts
Forward Current	: 2 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	RS2A+	RS2B+	RS2J+	RS2K+	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	50	100	600	800	V
Max. RMS Voltage	V _{RMS}	35	70	420	560	
Max. DC Blocking Voltage	V _{DC}	50	100	600	800	
Max. Average Forward Rectified Current @T _A =75°C	I _(AV)	2.0				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	60				
Peak Forward Voltage at 2A DC	V _F	1.3				V
Max. DC Reverse Current at T _A = 25°C Rated DC Blocking Voltage at T _A = 100°C	I _R	5 100				µA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	150		250	500	nS
Typical Junction Capacitance (Note 2)	C _J	30		20		pF
Typical Thermal Resistance (Note 3)	R _{θJL}	25				°C/W
Operating Temperature Range	T _J	-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150				°C

Notes:

1. Measured with I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4V 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. 1 – FORWARD CURRENT DERATING CURVE

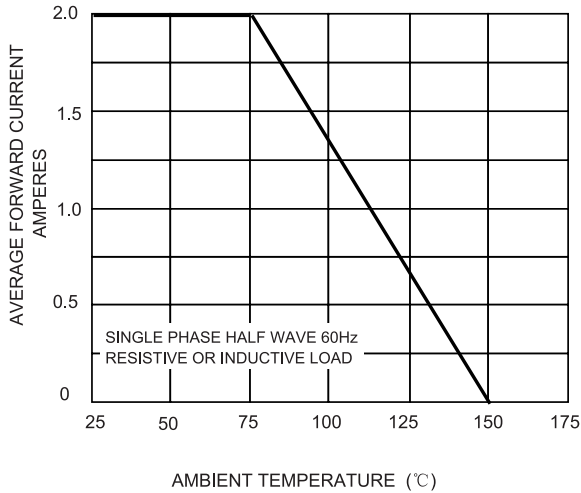


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

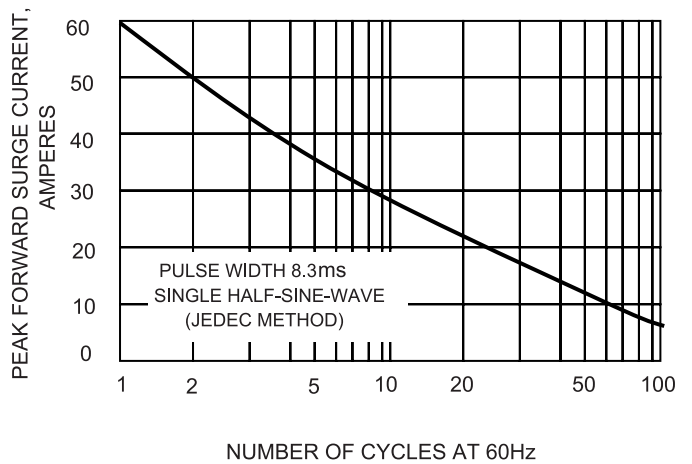


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

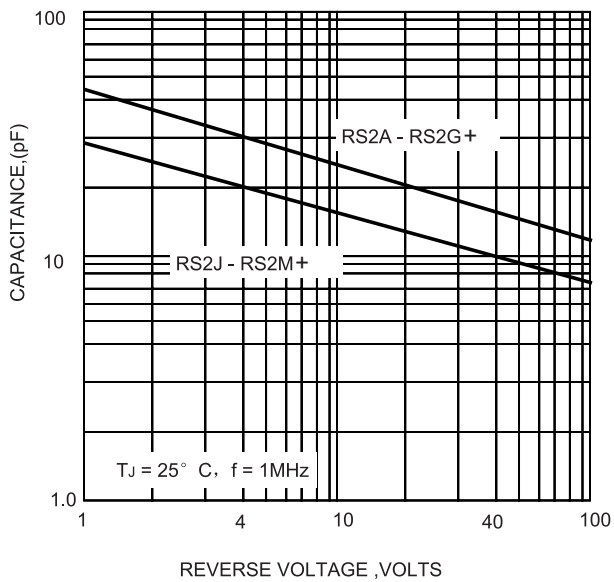
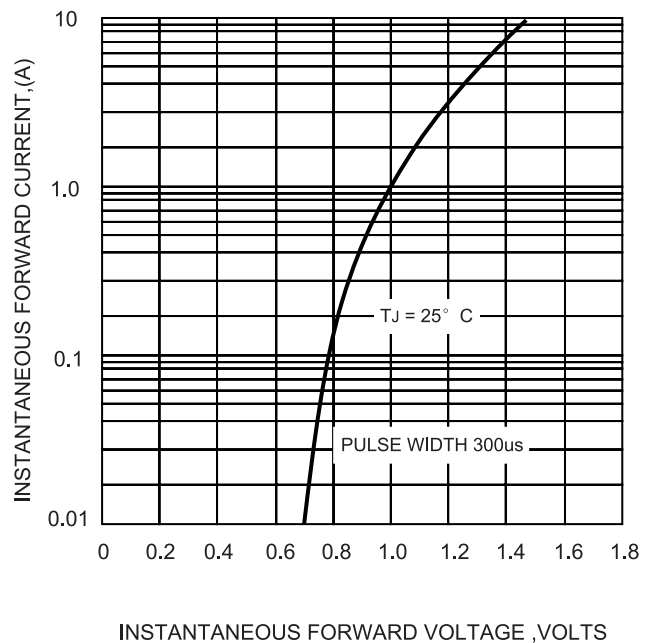


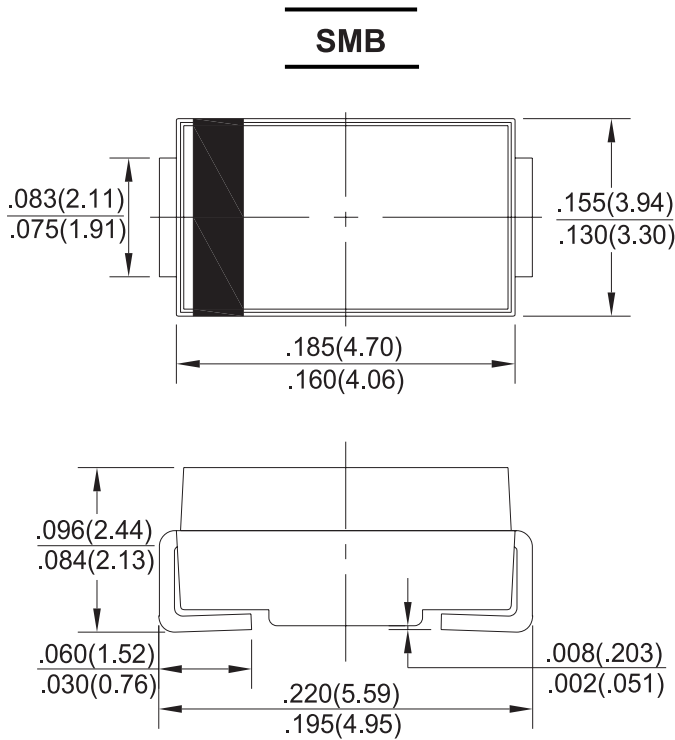
FIG.4-TYPICAL FORWARD CHARACTERISTICS



Surface Mount Fast Recovery Glass Passivated Rectifier



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Surface Mount Fast Recovery Glass Passivated Rectifiers	RS2A+
	RS2B+
	RS2J+
	RS2K+

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