Schottky Rectifier





Features:

- · For surface mounted applications
- · Metal-Semiconductor junction with guarding
- · Epitaxial construction
- Very low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

Mechanical Data:

Case	: Molded Plastic
Polarity	: Colour band denotes cathode
Weight	: 0.002 ounces,0.053 grams
Reverse Voltage	: 20 to 150 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	SS12+	SS14+	SS16+	SS110+	SS115+	Unit
Max. Repetitive Peak Reverse Voltage	Vrrm	20	40	60	100	150	
Max. RMS Voltage	VRMS	14	28	42	70	105	V
Max. DC Blocking Voltage	VDC	20	40	60	100	150	
Max. Average Forward Rectified Current T∟= 100°C	l(AV)	1					
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	Ігѕм	30				A	
Max. Instantaneous Forward Voltage (Note 1) F = 1A at 25°C at 100°C	VF	-	.5 .4	0.75 0.65	0.8 0.7	0.95 0.85	V
Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 125^{\circ}C$	lr	0.2 0.1 - 2			μA		
Typical Junction Capacitance (Note 2)	Сл	110			pF		
Typical Thermal Resistance (Note 3)	Rejl	28			°C/W		
Operating Temperature Range	TJ	65 to 1150			.0°		
Storage Temperature Range	Тѕтс	-65 to +150					

Notes:

- 1. Pulse test with PW=300 μ s, 1% duty cycle
- 2. Measured at 1MHz and applied reverse voltage of 4V DC.
- 3. Thermal resistance junction to lead.

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Ratings and Characteristic Curves

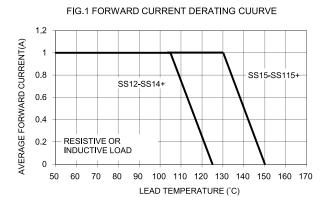
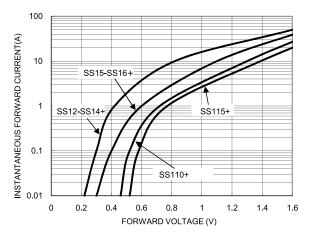
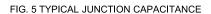
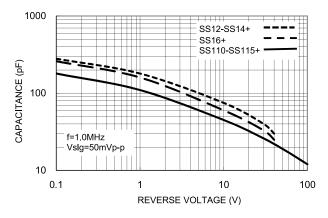
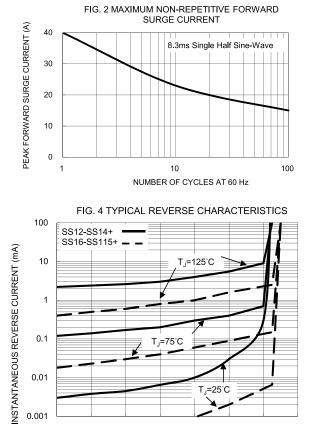


FIG. 3 TYPICAL FORWARD CHARACTERISTICS









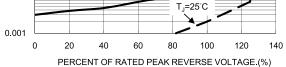
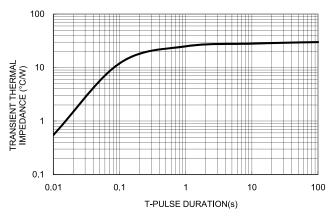


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE



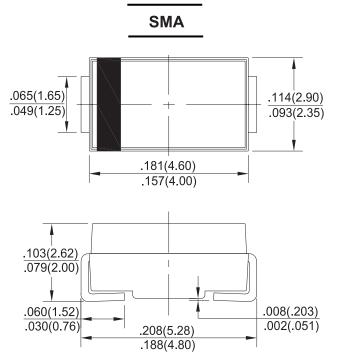
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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number		
Surface Mount Schottky Barrier Rectifiers	SS12+		
	SS14+		
	SS16+		
	SS110+		
	SS115+		

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