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	I(AV)	1					
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	lfsm	30				A	
Max. Instantaneous Forward Voltage (Note 1) $F = 1A \text{ at } 25^{\circ}\text{C}$ $\text{at } 100^{\circ}\text{C}$	Vf	_	.5 .4	0.75 0.65	0.8 0.7	0.95 0.85	V
	Ir	0.2			μΑ		
Typical Junction Capacitance (Note 2)	Cj	110				pF	
Typical Thermal Resistance (Note 3)	RθJL	28				°C/W	
Operating Temperature Range	T_{j}	-65 to +150				°C	
Storage Temperature Range	Tstg	-05 to +150					

Notes:

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

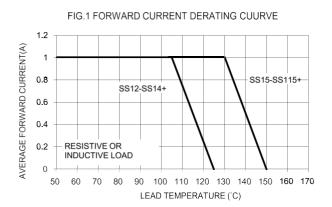
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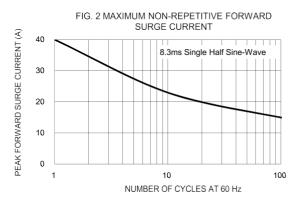


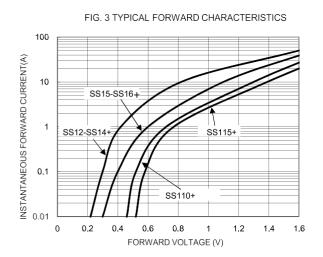
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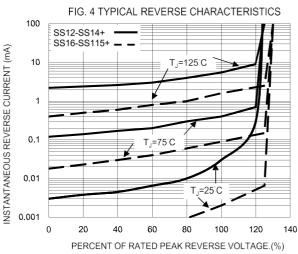
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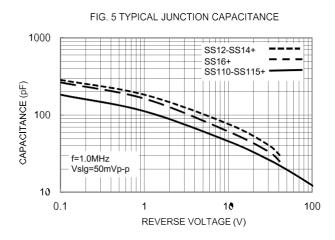
Ratings and Characteristic Curves

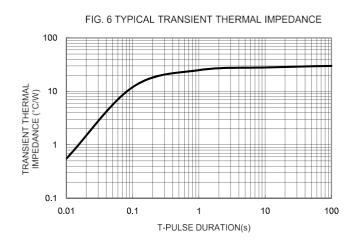












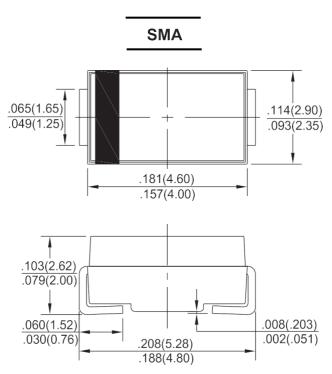
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Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

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

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