Surface Mount Schottky Barrier 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 : 0.007 ounces, 0.64 grams

Reverse Voltage : 40 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	Values	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	40	V
Max. RMS Voltage	VRMS	28	
Max. DC Blocking Voltage	VDC	40	
Max. Average Forward Rectified Current T _L = 100°C	I(AV)	3	А
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	80	
Peak Forward Voltage at 3A DC	VF	0.55	V
Max. DC Reverse Current at T _J = 25°C Rated DC Blocking Voltage at T _J = 100°C	lr	1 20	mA
Typical Junction Capacitance (Note 1)	Сл	250	pF
Typical Thermal Resistance (Note 2)	Rejl	10	°C/W
Typical Thermal Resistance (Note 3)	Reja	50	
Operating Temperature Range	Тл	-55 to +150	°C
Storage Temperature Range	Тѕтс		

Notes:

- 1. Measured at 1MHz and applied reverse voltage of 4V DC.
- 2. Thermal resistance junction to lead.
- 3. Thermal resistance junction to ambient.
- 4. The typical data above is for reference only

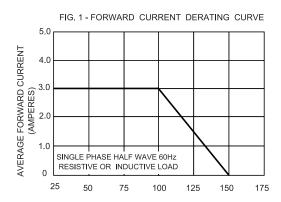
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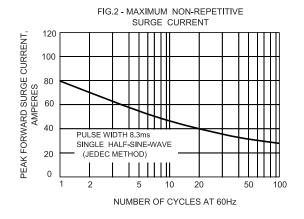


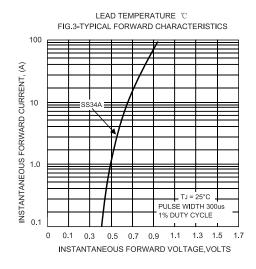
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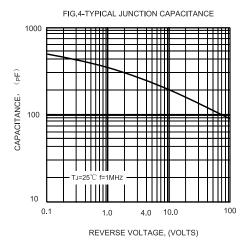


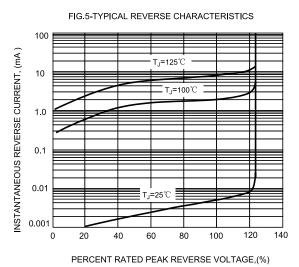
Ratings and Characteristic Curves











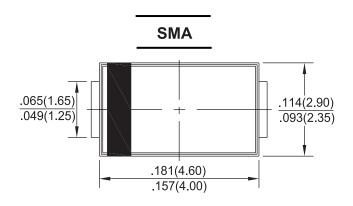


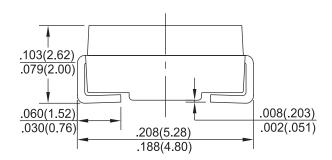


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Dimensions:





Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Schottky Diode, 3A 40V SMA	SS34A	

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