Schottky Barrier Rectifier





Features

- · Metal-semiconductor junction with guarding
- · Epitaxial construction
- · 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

Specifications

Reverse Voltage : 40V

Forward Current : 5 Amperes
Case : Moulded plastic.

Polarity : Colour band denotes cathode.

Weight : 0.007 oz, 0.21 g.

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, 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	V DC	40	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths at TL = 95°C	I (AV)	5	А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	Ігѕм	150	
Max. Forward Voltage at 5A 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 50	mA
Typical Junction Capacitance (Note 1)	CJ	500	pF
Typical Thermal Resistance (Note 2)	Reja	15	°C / W
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтс	-55 to +150	

Notes: 1. Measured at 1MHz and applied reverse voltage of 4 V DC.

2. Thermal resistance junction to ambient.

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Rating and Characteristics Curves

Figure 1 - Forward Current Derating Curve

6.0

4.0

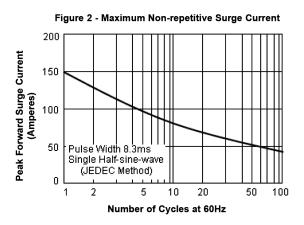
4.0

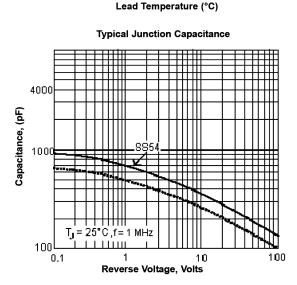
2.0

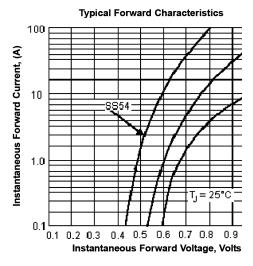
Single Phase Half Wave 60Hz

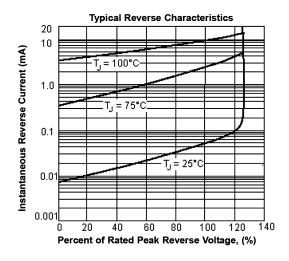
1.0 Resistive or Inductive Load
0.375 inches (9.5mm) Lead Lengths

25 50 75 100 125 150 175









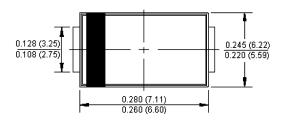
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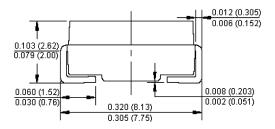


Schottky Barrier Rectifier



DO-214AB (SMC)





Dimensions: Millimetres

Part Number Table

Description	Part Number	
Schottky Rectifier, 40V, 5A, Single, DO-214AB (SMC)	SS54	

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