# Schottky Barrier Rectifier





### Features:

- · Metal-Semiconductor junction with guard ring
- Epitaxial construction
- · Low forward voltage drop
- · High current capability
- · The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### **Mechanical Data:**

Case : JEDEC DO-27 molded plastic
Polarity : Colour band denotes cathode
Weight : 0.04 ounces , 1.1 grams

Mounting Position : Any
Reverse Voltage : 100 Volts
Forward Current : 5 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	100	
Max. RMS Voltage	VRMS	70	v
Max. DC Blocking Voltage	VDC	100	
Max. Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @ T∟ = 95°C	I(AV)	5.0	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	Ігѕм	150	A
Peak Forward Voltage at 5A DC	VF	0.85	V
Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 100^{\circ}C$	lR	1 50	μА
Typical Junction Capacitance (Note 1)	CJ	350	pF
Typical Thermal Resistance (Note 2)	Rejl	10	°C/W
Operating Temperature Range	Тл	-55 to +150	°C
Storage Temperature Range	Тѕтс		

## Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance junction to lead
- 3. The typical data above is for reference only

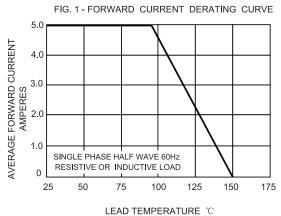
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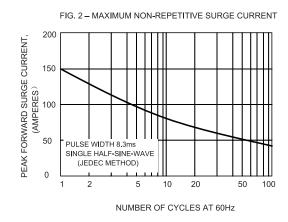


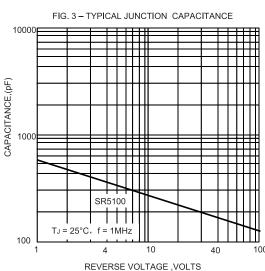
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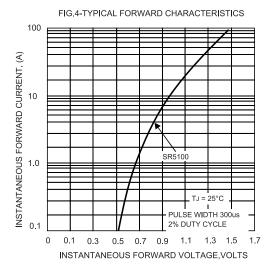


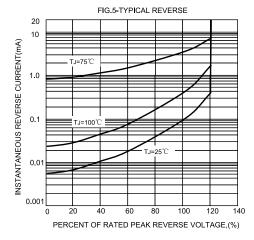
## **Ratings and Characteristic Curves**











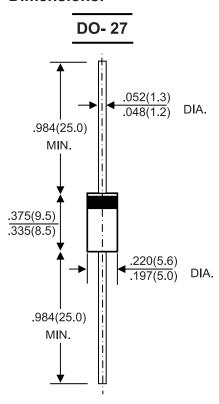
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# Schottky Barrier Rectifier



#### **Dimensions:**



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number
Schottky Barrier Rectifier	SR5100

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