Schottky Barrier Rectifier

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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		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	l(AV)	5.0	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 $T_J = 100^{\circ}C$	IR	1 50	μA	
Typical Junction Capacitance (Note 1)	Сл	350	pF	
Typical Thermal Resistance (Note 2)	Rejl	10	°C/W	
Operating Temperature Range	TJ	EE to 1150	°C	
Storage Temperature Range	Тѕтс	-55 to +150 °C		

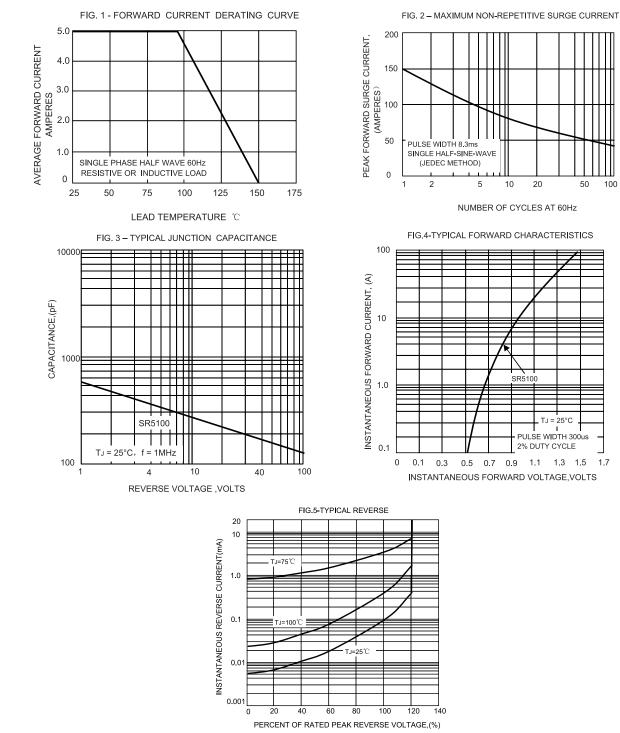
Notes:

- 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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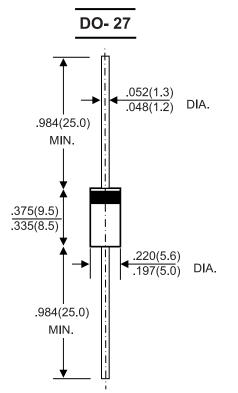
Ratings and Characteristic Curves

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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	SR5100

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