## **Schottky Barrier Rectifier**

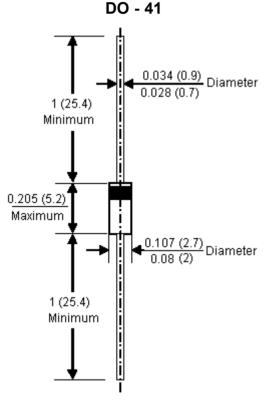




#### Features:

- Metal-semiconductor junction with guard ring.
- Epitaxial construction.
- Low forward voltage drop.
- High current capability.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

Reverse Voltage - 100 V Forward Current - 1 Ampere



Dimensions: Inches (Millimetres)

#### **Mechanical Data**

Case : JEDEC DO-41 moulded plastic.
Polarity : Colour band denotes cathode.

Weight : 0.012 oz, 0.34 g.

Mounting position : Any.





## **Schottky Barrier Rectifier**



### **Maximum Ratings and Electrical Characteristics**

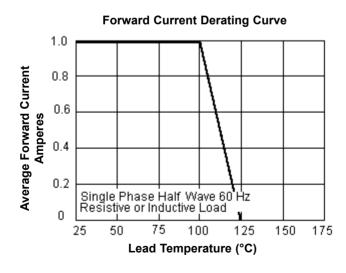
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

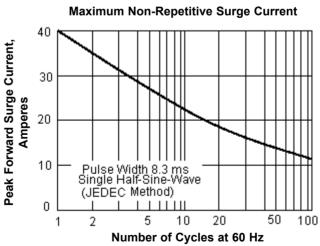
Characteristics	Symbol	SR1100	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Lengths at T <sub>L</sub> = 100°C	I <sub>(AV)</sub>	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	40	
Peak Forward Voltage at 1 A dc	V <sub>F</sub>	0.85	V
Maximum DC Reverse Current at $T_J = 25^{\circ}$ C Rated DC Blocking Voltage at $T_J = 100^{\circ}$ C	I <sub>R</sub>	1 10	mA
Typical Junction Capacitance (Note 1)	CJ	80	pF
Typical Thermal Resistance (Note 2)	$R_{ heta JL}$	15	°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125	- °C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	

Notes:

1. Measured at 1 MHz and applied reverse voltage of 4 V dc. 2. Thermal resistance junction to lead.

#### **Rating and Characteristics Curves**





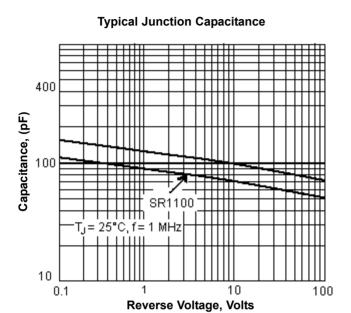


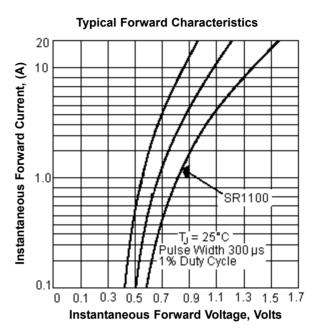


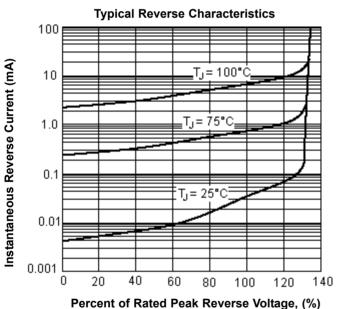
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### **Rating and Characteristics Curves**







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