Schottky Barrier Rectifier

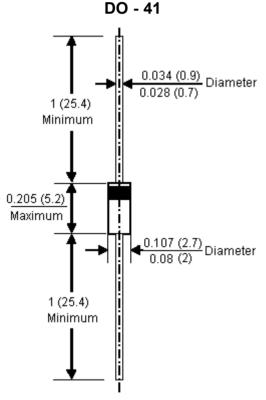




Features:

- 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 - 60 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

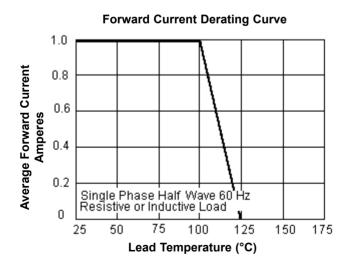
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

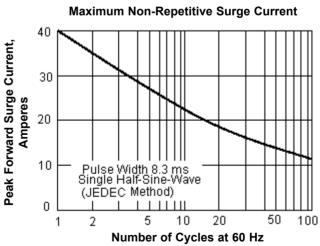
Characteristics	Symbol	SR160	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	
Maximum DC Blocking Voltage	V _{DC}	60	
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Lengths at T _L = 100°C	I _(AV)	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	40	
Peak Forward Voltage at 1 A dc	V _F	0.7	V
Maximum DC Reverse Current at $T_J = 25^{\circ}$ C Rated DC Blocking Voltage at $T_J = 100^{\circ}$ C	I _R	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 _J	-55 to +125	- °C
Storage Temperature Range	T _{STG}	-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



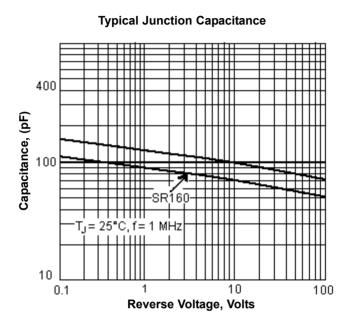


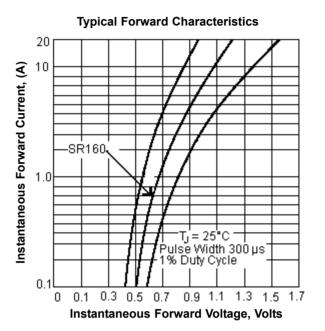


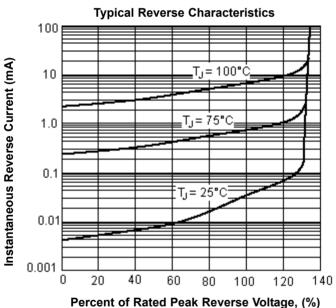
Schottky Barrier Rectifier



Rating and Characteristics Curves







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