

Schottky Barrier Rectifier

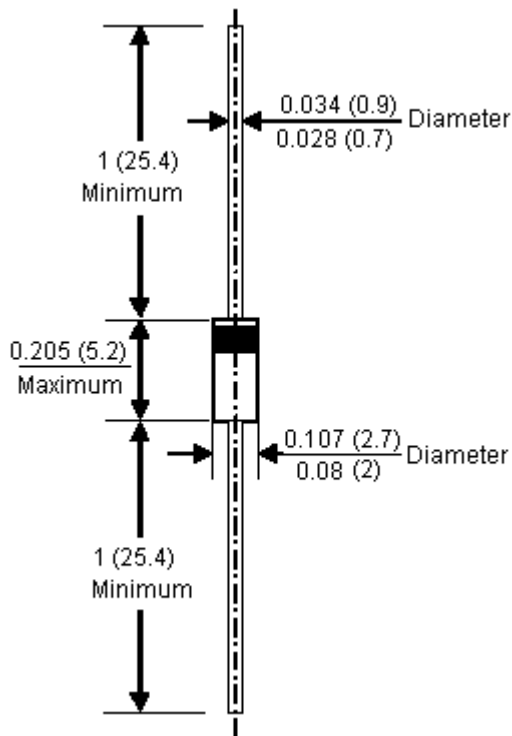


Features:

- 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 - 50 V
Forward Current - 1 Ampere

DO - 41



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.

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

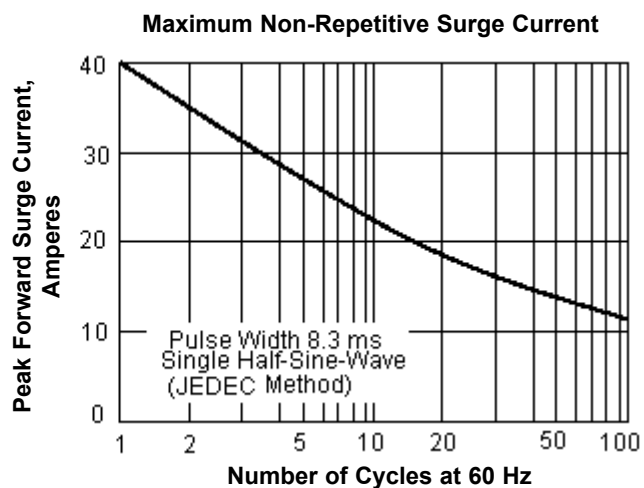
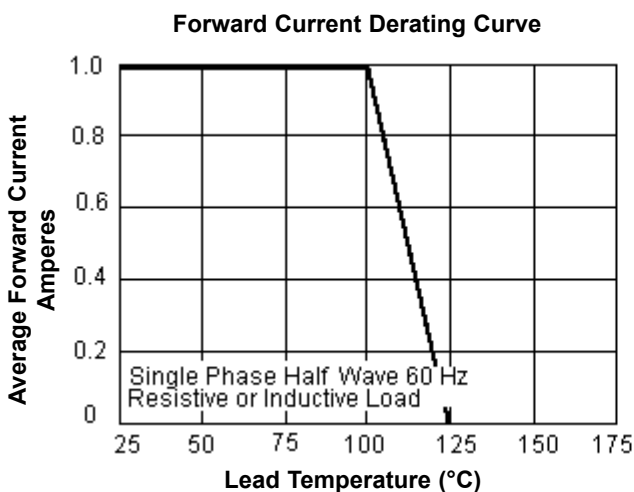
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	SR150	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	V
Maximum RMS Voltage	V_{RMS}	35	
Maximum DC Blocking Voltage	V_{DC}	50	
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Lengths at $T_L = 100^\circ\text{C}$	$I_{(AV)}$	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	
Maximum DC Reverse Current at $T_J = 25^\circ\text{C}$ Rated DC Blocking Voltage at $T_J = 100^\circ\text{C}$	I_R	1 10	mA
Typical Junction Capacitance (Note 1)	C_J	80	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	15	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +125	$^\circ\text{C}$
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

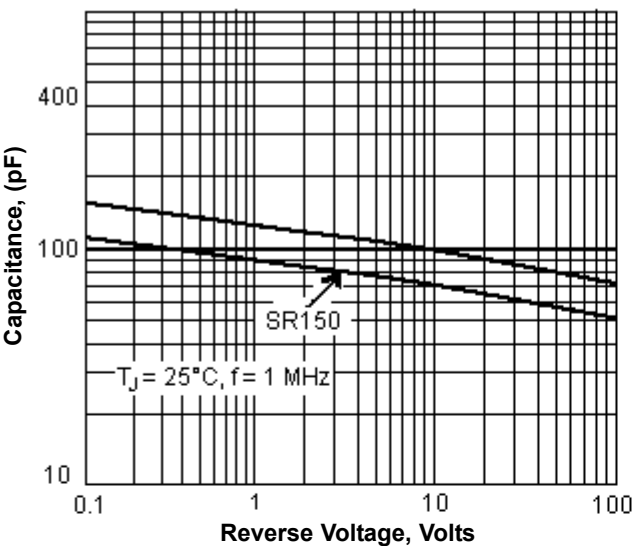


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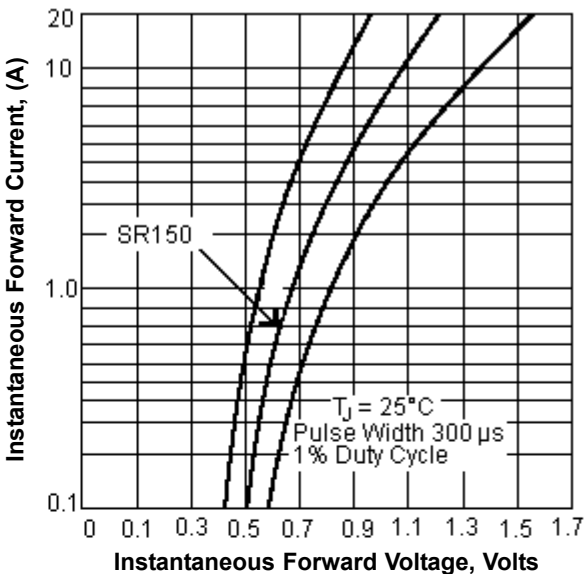


Rating and Characteristics Curves

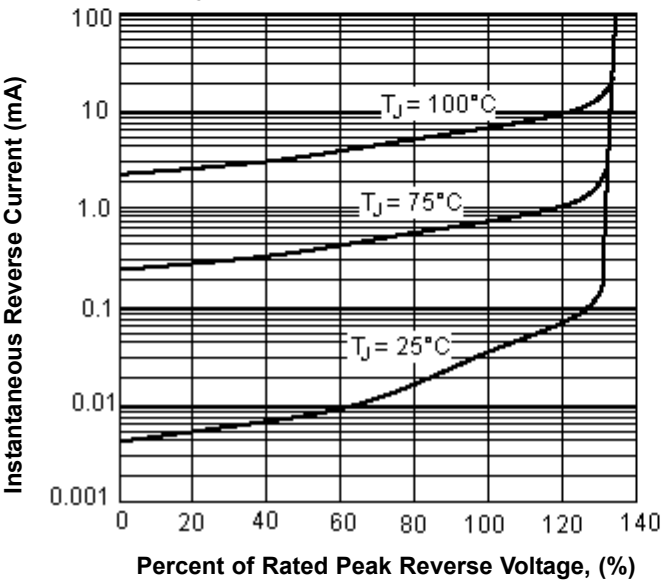
Typical Junction Capacitance



Typical Forward Characteristics



Typical Reverse Characteristics



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