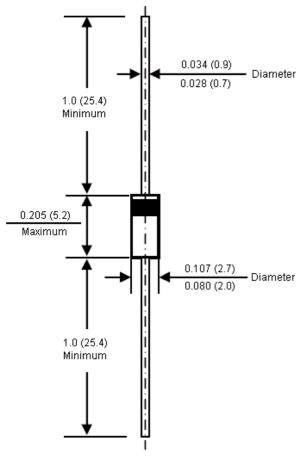
Schottky Barrier Rectifiers



Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Amperes

DO- 41



Features:

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

Dimensions : Inches (Millimetres)

Mechanical Data:

Case : JEDEC DO-41 moulded plastic
Polarity : Colour band denotes cathode
Weight : 0.012 ounces, 0.34 grams

Mounting position : Any

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%

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Schottky Barrier Rectifiers

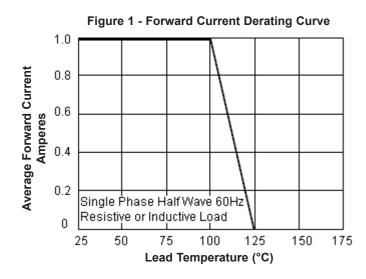


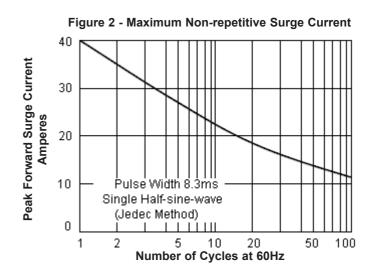
Characteristics	Symbol	SR150	SR160	SR1100	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	60	100	V
Maximum RMS Voltage	V _{RMS}	35	42	70	V
Maximum DC Blocking Voltage	V _{DC}	50	60	100	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @T _L =100°C	I _(AV)	1.0			А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	40		А	
Peak Forward Voltage at 1.0A DC	V _F	0.7 0.85		0.85	V
Maximum DC Reverse Current @T _J =25°C	lr -	1.0			mA
at Rated DC Blocking Voltage @T _J =100°C		10			
Typical Junction Capacitance (Note1)	CJ	80		pF	
Typical Thermal Resistance (Note2)	RøJL	15		°C/W	
Operating Temperature Range	T _J	-55 to +125		°C	
Storage Temperature Range	T _{STG}	-55 to +150		°C	

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance junction to lead.

Rating and Characteristic Curves





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Schottky Barrier Rectifiers



Figure 3 - Typical Junction Capacitance

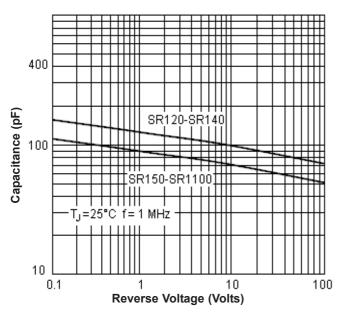


Figure 5 - Typical Reverse Characteristics

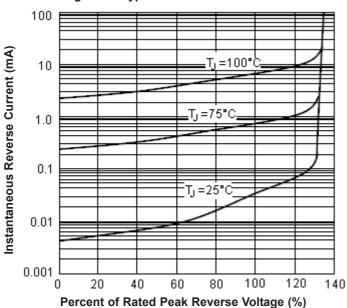
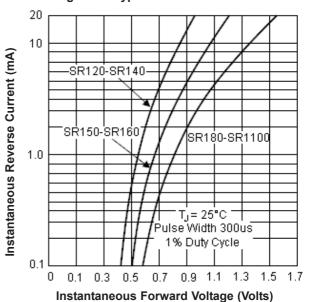


Figure 4 - Typical Forward Characteristics



Part Number Table

Description	Part Number		
Schottky Barrier Rectifiers	SR1100		
Schottky Barrier Rectifiers	SR150		
Schottky Barrier Rectifiers	SR160		

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