



# SR120 THRU SR1200

## 1 A Schottky Barrier Rectifiers

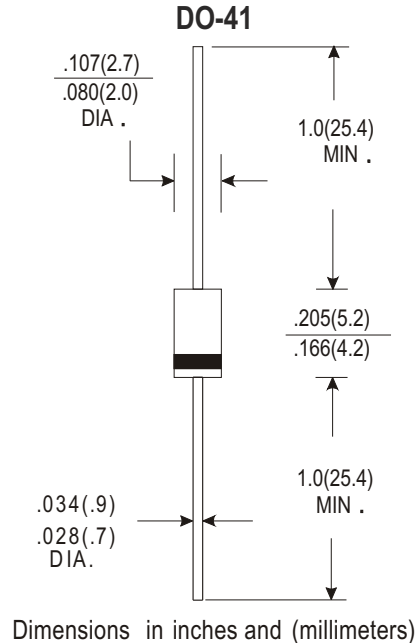
**Voltage Range 20 to 200 Volts**  
**Current 1.0 Ampere**

### Features

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

### Mechanical Data

- \* Cases: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL
- \* STD-202, Method 208 guaranteed
- \* Polarity: color band denotes cathode end
- \* High temperature soldering guaranteed:  
250°C/10 seconds/.375"(9.5mm) lead lengths at 5 lbs.,  
(2.3kg) tension
- \* Weight: 0.33 gram



### 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%

Type Number	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	SR1150	SR1200	Units		
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	150	200	V		
Maximum RMS Voltage	14	21	28	35	42	56	70	105	140	V		
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	150	200	V		
Maximum Average Forward Rectified Current See Fig. 1	1.0									A		
Peak Forward Surge Current, 8.3 ms Single Half Sinewave - Superimposed on Rated Load method (JEDEC)	30									A		
Maximum Instantaneous Forward Voltage @ 1.0A	0.50		0.70			0.85		0.87	0.90	V		
Maximum D.C. Reverse Current @ T <sub>A</sub> =25°C	0.5			0.2							mA	
At Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	10			50							mA	
Typical Thermal Resistance (Note 1) R <sub>θJA</sub>	50										°C/W	
Typical Junction Capacitance (Note 2)	110				80							pF
Operating Junction Temperature Range T <sub>J</sub>	-55 to +150										°C	
Storage Temperature Range T <sub>STG</sub>	-55 to +150										°C	

#### Notes:

1. Thermal Resistance from Junction to Ambient Vertical PC Board Mounting, 0.375"(9.5mm) Lead Length.
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

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### RATINGS AND CHARACTERISTIC CURVES (SR120 THRU SR1100)

