



SR120 THRU SR1100

1 A Schottky Barrier Rectifiers

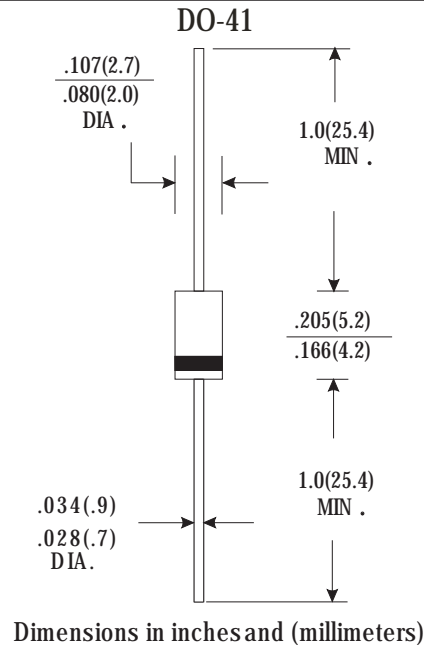
Voltage Range 20 to 60 Volts
Current 1.0 Ampere

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	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	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	0.55		0.70		0.85			V
Maximum D.C. Reverse Current @ T _A =25°C	1.0							mA
At Rated DC Blocking Voltage @ T _A =100°C	10							mA
Typical Thermal Resistance (Note 1) R _{JA}	50							°C/W
Typical Junction Capacitance (Note 2)	110		80		80			pF
Operating Junction Temperature Range T _J	-50 to +125		-50 to +125		-50 to +125			°C
Storage Temperature Range T _{STG}	-50 to +125							°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)

