



SR820S THRU SR860S

8 A Schottky Barrier Rectifiers

Voltage Range 20 to 60 Vts

Current 8.0 Amperes

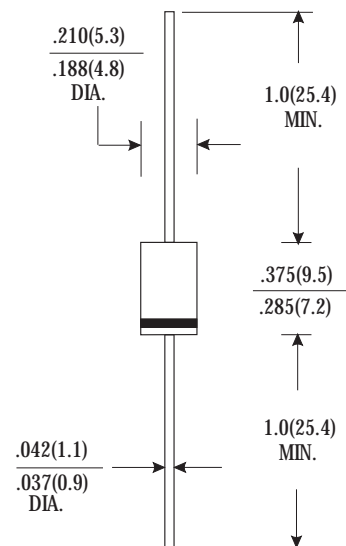
Features

- * 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: 1.1 gram

DO-201AD



Dimensions in inches and (millimeters)

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	SR820S	SR830S	SR840S	SR850S	SR860S	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1	8.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sinewave-Superimposed on Rated Load (JEDEC method)	150					A
Maximum Instantaneous Forward Voltage @ 8.0A	0.55		0.70			V
Maximum D.C. Reverse Current @ T _A =25°C	1.0					mA
At Rated DC Blocking Voltage @ T _A =100°C	50					mA
Typical Thermal Resistance (Note 1) R _{JA}	15			10		°C /W
Typical Junction Capacitance (Note 2)	500			380		pF
Operating Junction Temperature Range T _J	-55 to +125			-55 to +150		°C
Storage Temperature Range T _{STG}	-55 to +150					°C

Notes:

1. Thermal Resistance from Junction to Ambient Vertical P.C. 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(SR820S THRU SR860S)

