



SR820 THRU SR860

8 A Schottky Barrier Rectifiers

Voltage Range 20 to 60 Vts
Current 8.0 Amperes

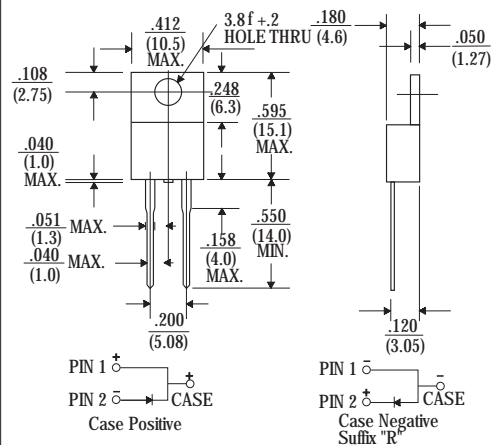
Features

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

Mechanical Data

- * Cases: TO-220A molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Leads solderable per MIL- STD-202, Method 208 guaranteed
- * Polarity: As marked
- * High temperature soldering guaranteed:
250°C/10 seconds/.25"(6.35mm) from case.
- * Weight: 2.24 grams

TO-220A



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	SR820	SR830	SR840	SR850	SR860	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 Sine-wave Superimposed on Rated Load (JEDEC method)	150					A
Maximum Instantaneous Forward Voltage @ 8.0A	0.57		0.70			V
Maximum D.C. Reverse Current @ T _c =25°C	1.0					mA
At Rated DC Blocking Voltage @ T _c =125°C	50					mA
Typical Thermal Resistance (Note 1) R _{JC}	5.0					°C/W
Typical Junction Capacitance (Note 2)	700			460		pF
Operating Junction Temperature Range T _J	-55 to +125			-55 to +125		°C
Storage Temperature Range T _{STG}	-55 to +125					°C

Notes:

1. Thermal Resistance from Junction to Case Per Leg
2. Measured at 1MHz and Applied Reverse Voltage of 4.0 Volts D.C.



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RATINGS AND CHARACTERISTIC CURVES (SR820THRU SR860)

