



SR820 THRU SR8200

8 A Schottky Barrier Rectifiers

Voltage Range 20 to 200 Volts

Current 8.0 Amperes

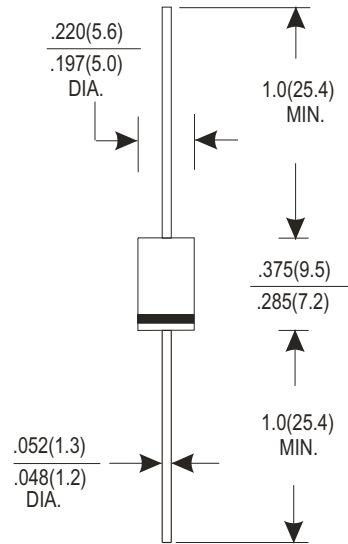
Features

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

Mechanical Data

- * Case: 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
- * Mounting position: Any
- * Weight: 0.34 grams

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	SR820	SR830	SR840	SR850	SR860	SR880	SR8100	SR8150	SR8200	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	8.0									A	
Peak Forward Surge Current, 8.3 ms Single Half Sinewave -Superimposed on Rated Load method (JEDEC)	125.0									A	
Maximum Instantaneous Forward Voltage @ 8.0A	0.50		0.70			0.85		0.92		V	
Maximum D.C. Reverse Current @ T _A =25°C	0.5				0.2						mA
At Rated DC Blocking Voltage @ T _A =100°C	10				50						mA
Typical Junction Capacitance (Note 1)	150									pF	
Typical Thermal Resistance R _{θJA} (Note 2)	35									°C/W	
Operating Junction Temperature Range T _J	-55+125				-55+150						°C
Storage Temperature Range T _{STG}	-55+150									°C	

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

[Http://www.upm.com.tw](http://www.upm.com.tw)

E-mail: upm.tw@msa.hinet.net



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RATING AND CHARACTERISTIC CURVES (SR220 THRU SR2100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

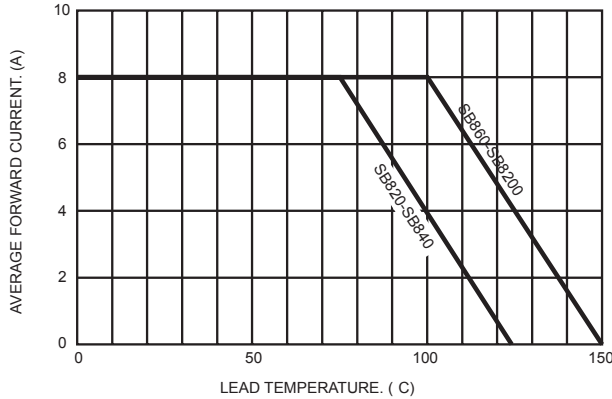


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

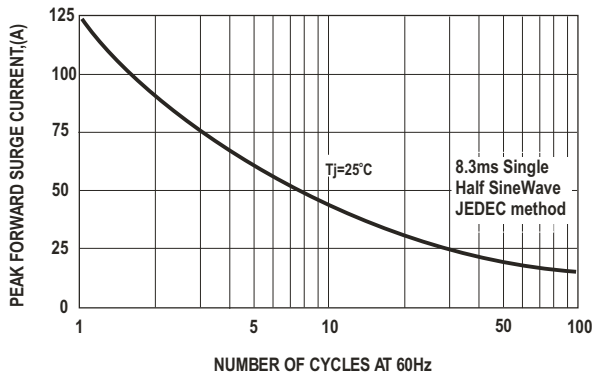


FIG.4-TYPICAL JUNCTION CAPACITANCE

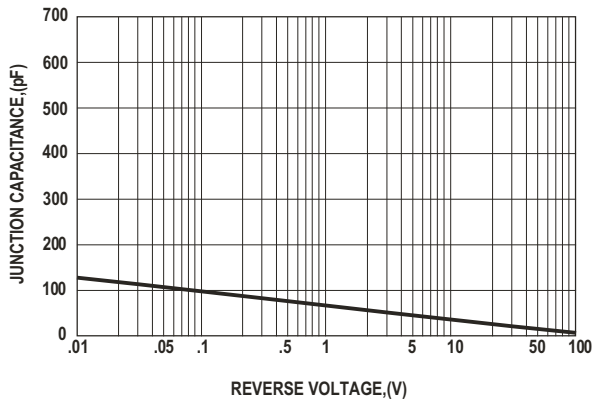


FIG.2-TYPICAL FORWARD CHARACTERISTICS

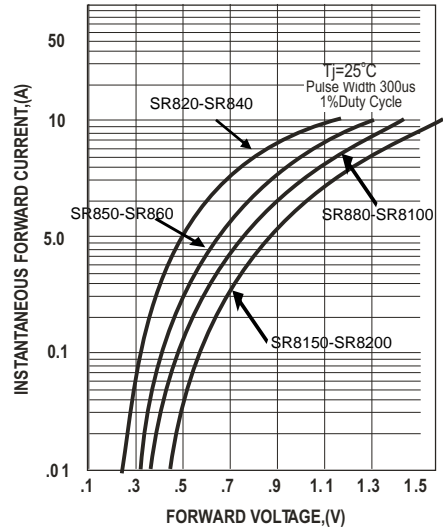


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

