

SR820~SR8200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 200 Volt **CURRENT** 8 Ampere

DO-201AD

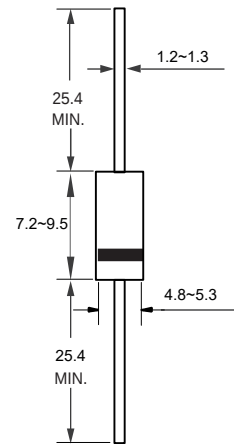
Unit:mm

FEATURES

- Low power loss, High efficiency
- High surge current capability
- High current capacity, low VF
- Lead free in compliance with EU RoHS 2.0

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SR820	SR830	SR840	SR850	SR860	SR880	SR8100	SR8150	SR8200	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Current (see FIG.1)	I _{F(AV)}	8									A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150									A	
Maximum Forward Voltage at 8 A	V _F	0.55			0.70		0.92		1.02		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25 °C T _J = 100 °C	I _R	0.5 10										mA
Typical Junction Capacitance (Note1)	C _J	270									pF	
Thermal Resistance (Note2)	R _{θJA}	40									°C / W	
Operating Junction Temperature Range	T _J	-55 to +125			-55 to +150						°C	
Storage Temperature Range	T _{STG}	-55 to +150									°C	

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volt
2. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

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RATING AND CHARACTERISTIC CURVES

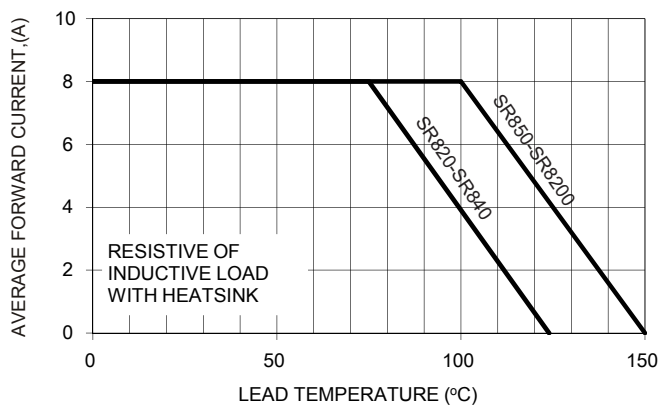


Fig. 1 Forward Current Derating Curve

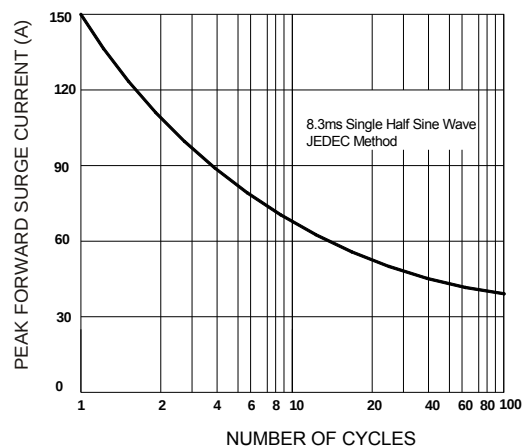


Fig. 2 Surge Current Derating Curve

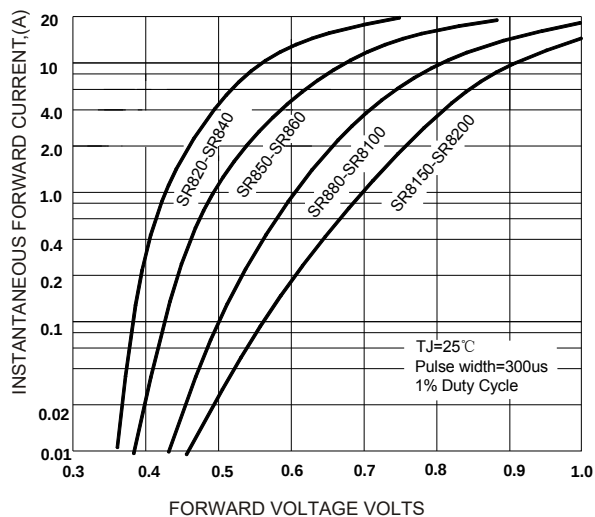


Fig. 3 Forward Characteristics

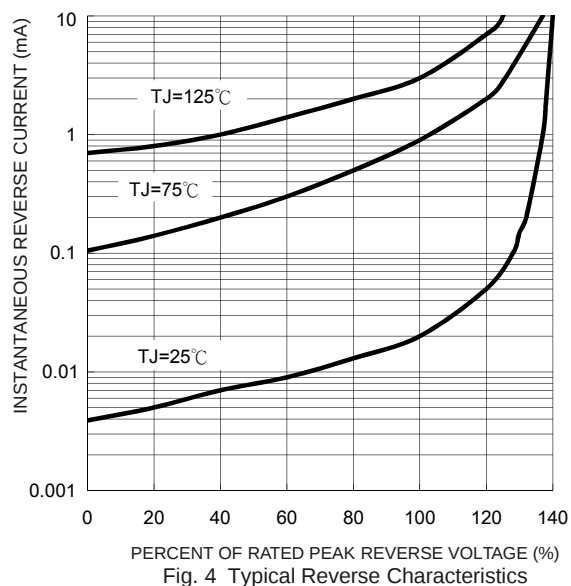


Fig. 4 Typical Reverse Characteristics

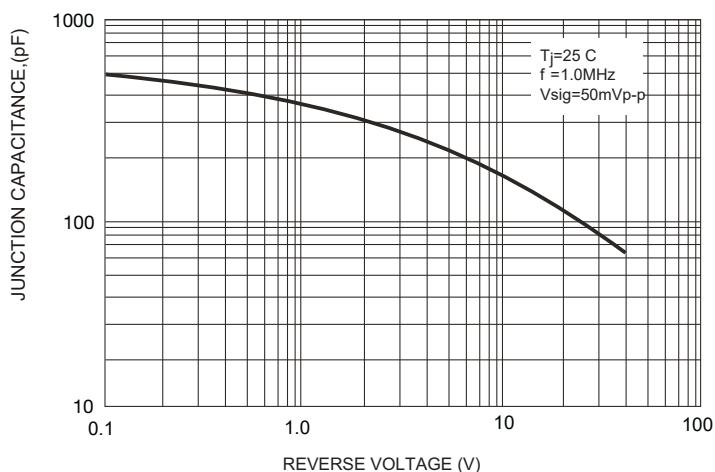


Fig. 5 Typical Junction Capacitance

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SR820~SR8200	DO-201AD	13 Inch	1200