

SR5150~SR5200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 150 to 200 Volt **CURRENT** 5 Ampere

DO-201AD

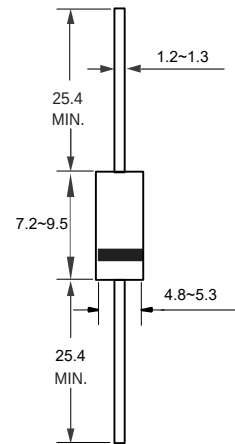
Unit:mm

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	SR5150	SR5200	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	200	V
Maximum RMS Voltage	V_{RMS}	105	140	V
Maximum DC Blocking Voltage	V_{DC}	150	200	V
Maximum Average Forward Current (see FIG.1)	$I_{F(AV)}$	5		A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150		A
Maximum Forward Voltage at 5 A	V_F	0.87	0.90	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	I_R	0.2 10		mA
Typical Junction Capacitance (Note1)	C_J	350		pF
Thermal Resistance2)	$R_{\theta JA}$	25		°C / W
Operating Junction Temperature Range	T_J	-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.

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RATING AND CHARACTERISTIC CURVES

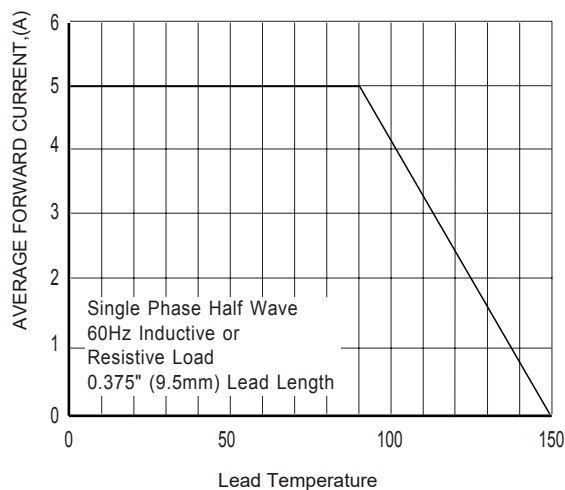


Fig. 1 Forward Current Derating Curve

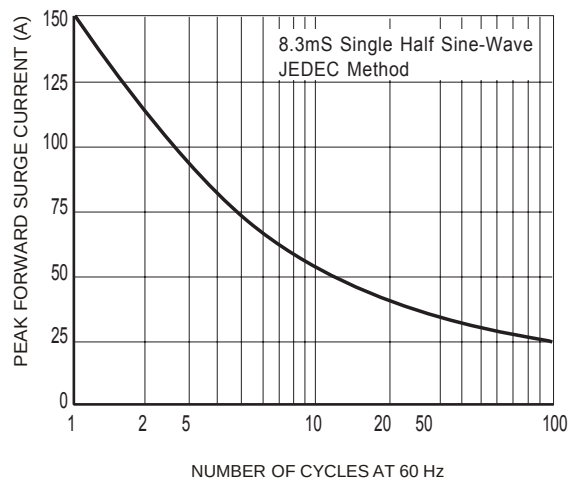


Fig. 2 Surge Current Derating Curve

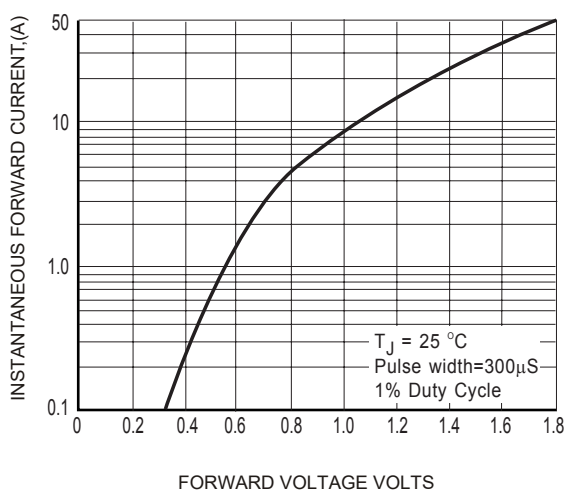


Fig. 3 Typical Forward Characteristics

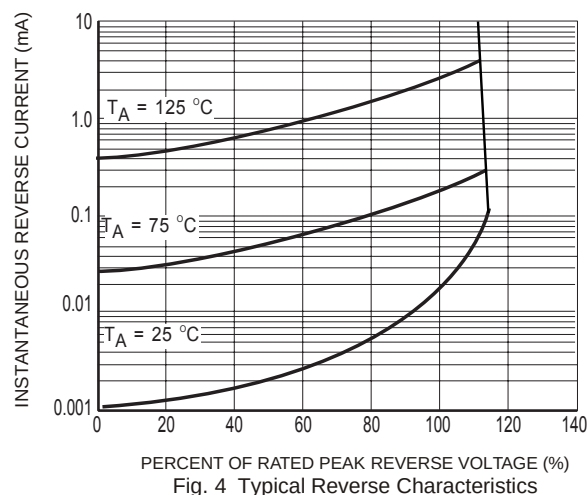


Fig. 4 Typical Reverse Characteristics

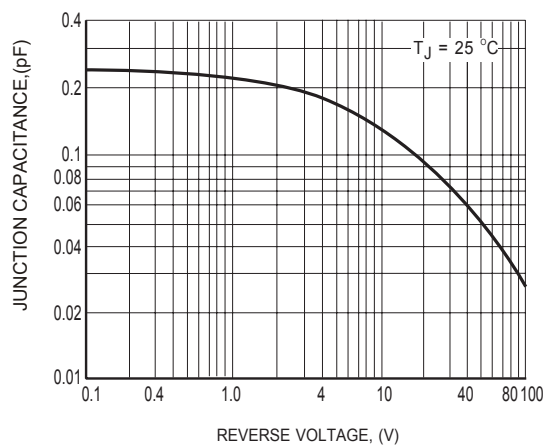


Fig. 5 Typical Junction Capacitance

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SR5150~SR5200	DO-201AD	13 Inch	1200