

SR190 THRU SR1100

# SCHOTTKY BARRIER RECTIFIER

# **VOLTAGE RANGE 90 to 100 Volts CURRENT 1.0 Ampere**

## **FEATURES**

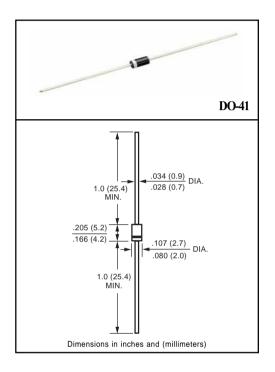
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High surge capabitity
- \* High reliability

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.33 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SR190	SR1100	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	90	100	Volts
Maximum RMS Voltage	VRMS	63	70	Volts
Maximum DC Blocking Voltage	VDC	90	100	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at Ta=50 ° C	Io	1.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50		Amps
Typical Thermal Resistance (Note 1)	RθJA	57		°C/W
Typical Junction Capacitance (Note 2)	CJ	110		pF
Operating Temperature Range	TJ	150		۰C
Storage Temperature Range	Тѕтс	-55 to + 150		°C

## ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SR190	SR1100	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.77		Volts
Maximum Average Reverse Current	@TA = 25°C	- IR	1.0		uA
at Rated DC Blocking Voltage	@TJ = 125°C	]	0.5		m A

NOTES: 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

# RATING AND CHARACTERISTIC CURVES (SR190 THRU SR1100)

