

SR120S THRU SR1A0S

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Ampere

0.107 (2.7) DIA. 0.025 (0.65) DIA. 0.025 (0.65) DIA. 0.025 (0.65) DIA.

Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC A-405 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

	SYMBOLS	SR 120S	SR 130S	SR 140S	SR 150S	SR 160S	SR 170S	SR 180S	SR 190S	SR 1A0S	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)	1.0								Amp	
Peak forward surge current											
8.3ms single half sine-wave superimposed on	IFSM	Ifsm 40.0								Amps	
rated load (JEDEC Method)											
Maximum instantaneous forward voltage at 1.0A	VF	0.55 0.70				0.85			Volts		
Maximum DC reverse current Ta=25℃		0.5								mA	
at rated DC blocking voltage Ta=100℃	l _R	10.0				5.0			1		
Typical junction capacitance (NOTE 1)	Сл		110 80						pF		
Typical thermal resistance (NOTE 2)	R _{0JA}		50.0								°C/W
Operating junction temperature range	TJ		-65 to +125 -65 to +150					°C			
Storage temperature range	Тѕтс	-65 to +150							°C		

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES SR120S THRU SR1A0S













