

SR120S THRU SR1200S

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere

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: 260°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC A-405 molded plastic body

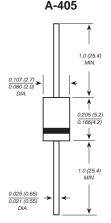
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams



Dimensions in inches and (millimeters)

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 1100S	SR 1150S	SR 1200S	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	70	80	90	100	150	200	V
Maximum RMS voltage	VRMS	14	21	28	35	42	49	56	63	70	105	140	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	70	80	90	100	150	200	V
Maximum average forward rectified current	l(AV)	1.0										Α	
0.375"(9.5mm) lead length(see fig.1)	I(AV)	1.0											
Peak forward surge current													
8.3ms single half sine-wave superimposed on	IFSM	30.0										Α	
rated load (JEDEC Method)													
Maximum instantaneous forward voltage at 1.0A	VF	0.55 0.70			70	0.85				0.95	V		
Maximum DC reverse current Ta=25°C	I	0.5 0.2									mA		
at rated DC blocking voltage Ta=100℃	l _R	10.0				5.0			2.0		111/1		
Typical junction capacitance (NOTE 1)	Сл	110			80						рF		
Typical thermal resistance (NOTE 2)	Reja	50.0										°C/W	
Operating junction temperature range	TJ,	-55 to +125				-55 to +150						°C	
Storage temperature range	Тѕтс	-55 to +150										°C	

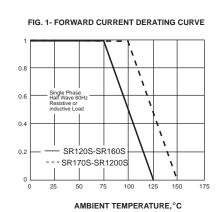
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

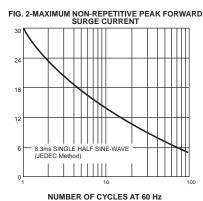


RATINGS AND CHARACTERISTIC CURVES SR120S THRU SR1200S

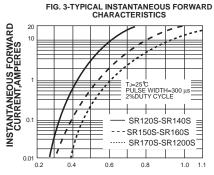


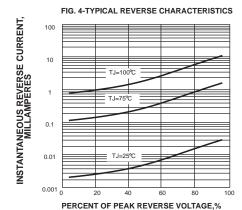




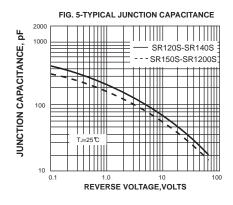


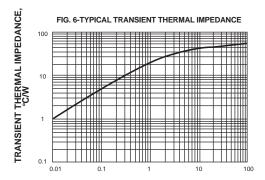
3041 INOTANTANEOUS FORMARD





INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.