



# SR120 THRU SR1200

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

## SCHOTTKY BARRIER RECTIFIER

### 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 DO-41 Molded plastic body

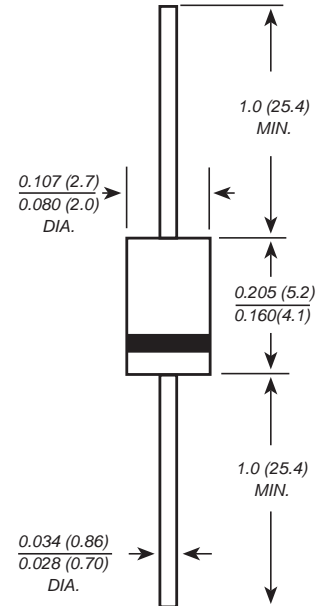
**Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity** : Polarity symbol marking on body

**Mounting Position** : Any

**Weight** : 0.012 ounce, 0.33 grams

DO-41



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%.

Parameter	SYMBOLS	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	UNITS	
		120	130	140	150	160	170	180	190	1100	1150	1200		
Marking Code		MDD SR 120	MDD SR 130	MDD SR 140	MDD SR 150	MDD SR 160	MDD SR 170	MDD SR 180	MDD SR 190	MDD SR 1100	MDD SR 1150	MDD SR 1200		
Maximum repetitive peak reverse voltage	V <sub>RMM</sub>	20	30	40	50	60	70	80	90	100	150	200	V	
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	49	56	63	70	105	140	V	
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	70	80	90	100	150	200	V	
Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1)	I <sub>(AV)</sub>	1.0											A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	40											A	
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	0.55		0.70			0.85			0.95			V	
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	0.5											0.2	mA
		10.0					5.0					2.0		
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	110			80									pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	50.0											°C/W	
Operating junction and storage	T <sub>J</sub>	-65 to +125					-65 to +150							°C
Storage temperature range	T <sub>STG</sub>	-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



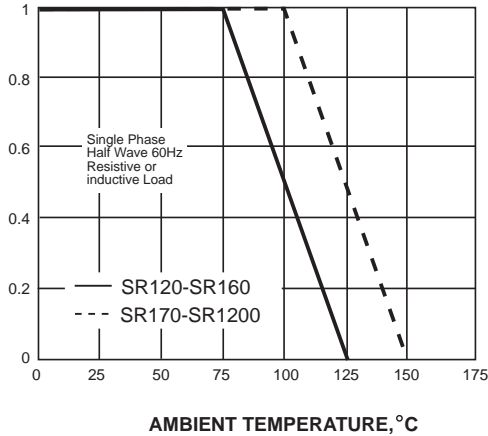
# SR120 THRU SR1200

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## Ratings And Characteristic Curves

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

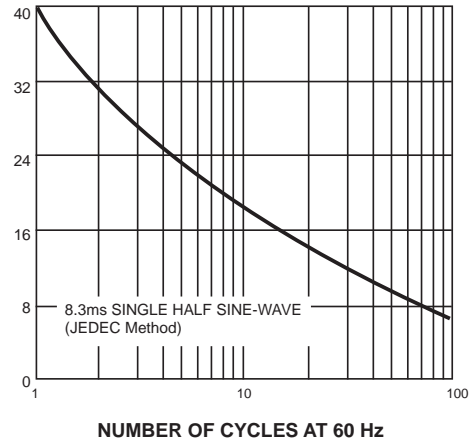


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

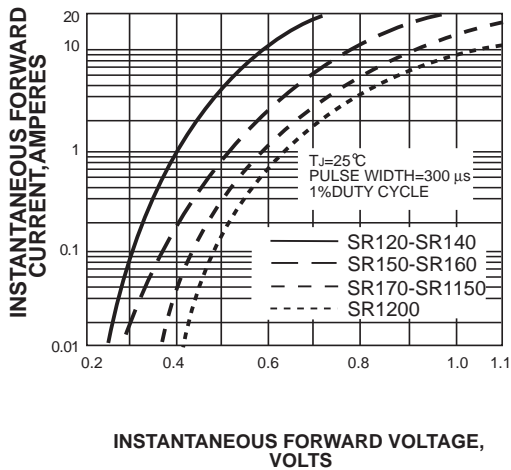


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

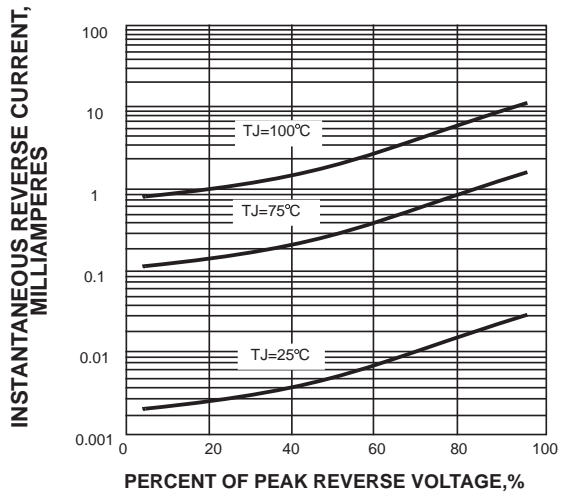
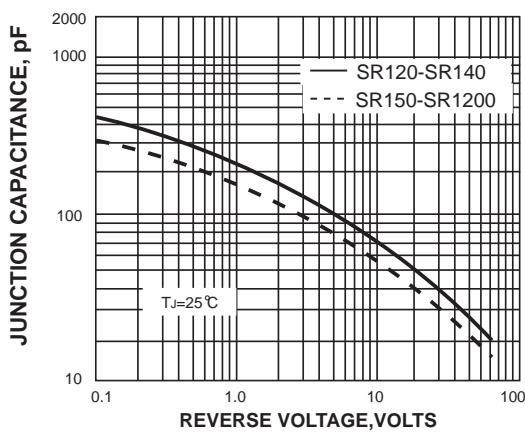
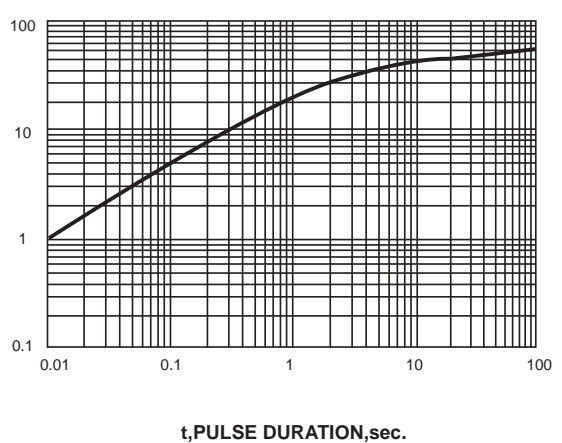


FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>MDD\(辰达行\)](#)