



SR120 THRU SR1A0

Reverse Voltage - 20 to 100 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

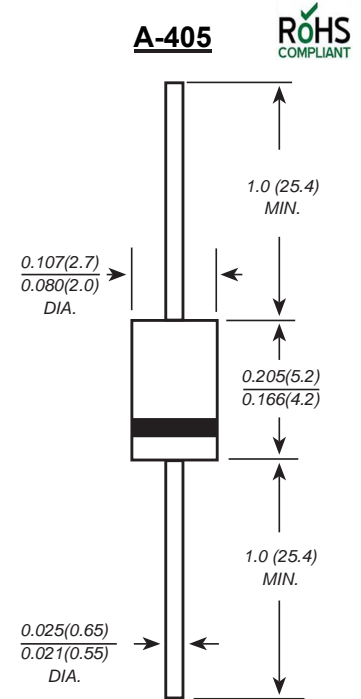
Case : JEDEC A-405 Molded plastic body

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

Polarity : Polarity symbol marking on body

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%.

Parameter	SYMBOLS	SR	SR	SR	SR	SR	SR	SR	SR	SR	UNITS	
		120	130	140	150	160	170	180	190	1A0		
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 1A0		
Maximum repetitive peak reverse voltage	V _{RMM}	20	30	40	50	60	70	80	90	100	V	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	V	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	70	80	90	100	V	
Maximum average forward rectified current at T _A =75°C	I _(AV)	1.0									A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40									A	
Maximum instantaneous forward voltage at 1.0A	V _F	0.55			0.70			0.85			V	
Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =100°C	I _R	0.5						5.0			mA	
		10.0										
Typical junction capacitance (NOTE 2)	C _J	110			80						pF	
Typical thermal resistance (NOTE 3)	R _{θJA}	50.0									°C/W	
Operating junction and storage	T _J	-65 to +125					-65 to +150					°C
Storage temperature range	T _{STG}	-65 to +150										



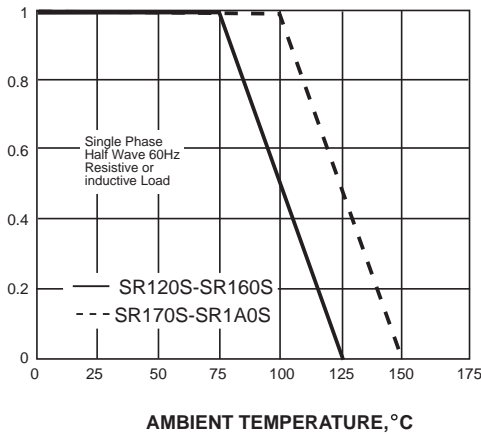
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Ratings And Characteristic Curves

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

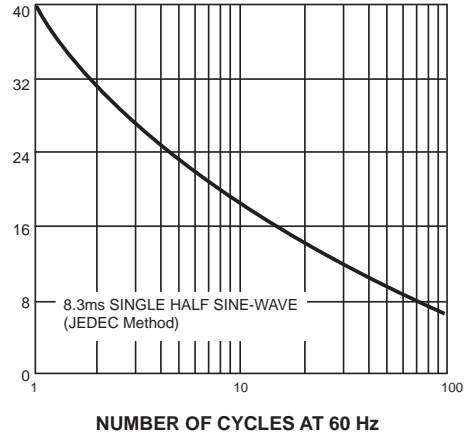
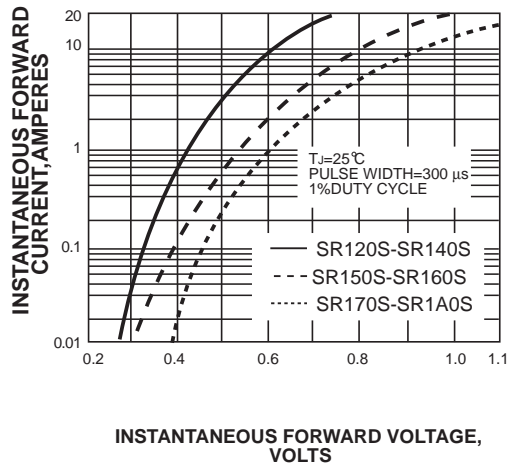


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

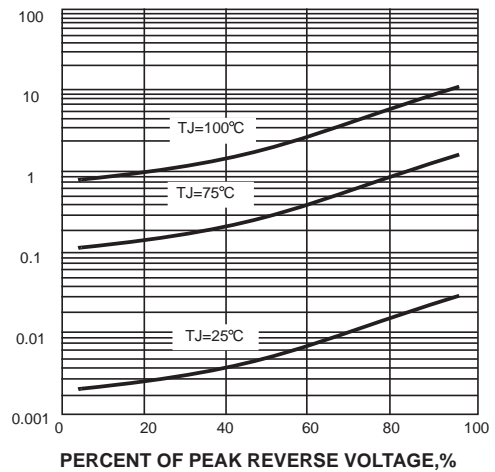
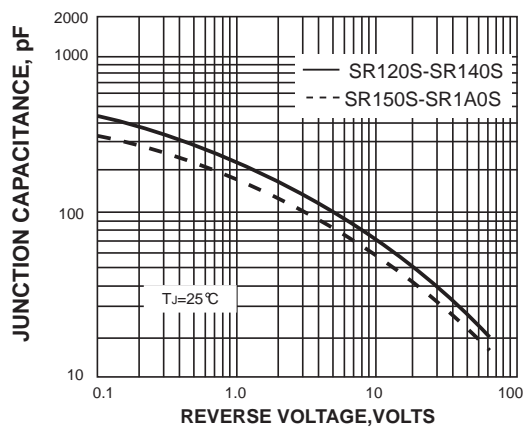
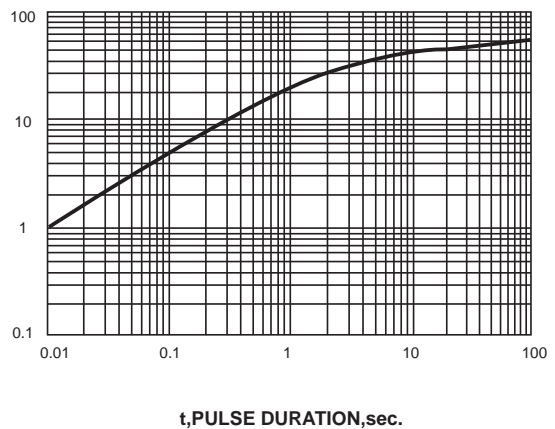


FIG. 5-TYPICAL JUNCTION CAPACITANCE



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

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