

## SR120 THRU SR1200

## SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE 20 to 200 Volts FORWARD CURRENT 1.0 Ampere

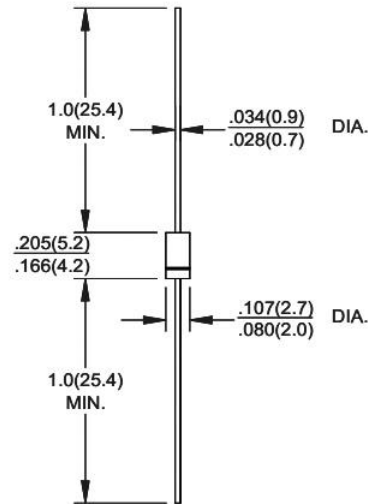
## FEATURES

- ◆ Low forward voltage drop
- ◆ Low leakage current
- ◆ High forward surge capability
- ◆ High temperature soldering guaranteed:  
260°C/10 seconds, 0.375" (9.5mm) lead length at  
5 lbs(2.3kg) tension

## Mechanical Data

- ◆ Case: Mold plastic
- ◆ Epoxy: UL94V-0 rate flame retardant
- ◆ Polarity: Indicated by cathode band
- ◆ Lead: Plated axial lead, solderable per  
MIL-STD-202E method 208°C
- ◆ Mounting position: Any

## DO-41



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOL	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	UNIT	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	Volts	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	Volts	
Maximum Average Forward Rectified Current	$I_{(AV)}$	1.0									Amps	
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	$I_{FSM}$	30									Amps	
Maximum Instantaneous Forward Voltage at 1.0A	$V_F$	0.55		0.70		0.85		0.90			Volts	
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at rated DC Blocking voltage $T_A=100^\circ\text{C}$	$I_R$	0.5					10					mA
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	50									°C/W	
Operating Temperature Range	$T_J$	-55 to +125									°C	
Storage Temperature Range	$T_{STG}$	-55 to +150									°C	

Note: 1. Thermal Resistance from Junction to Ambient at  $5.0 \times 5.0 \text{mm}^2$  copper pad areas.

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### RATING AND CHARACTERISTIC CURVES SR120 THRU SR1200

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

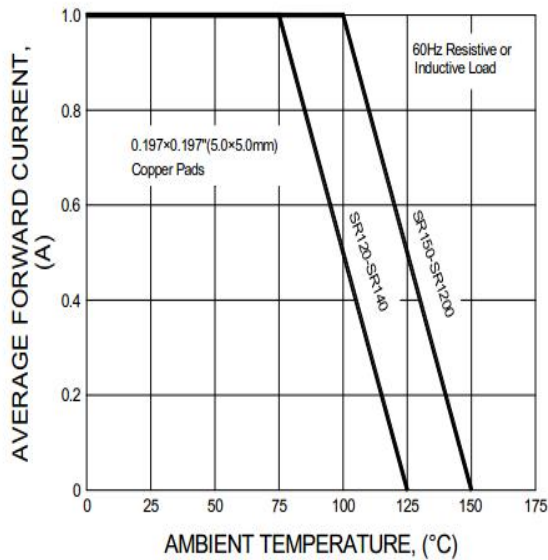


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

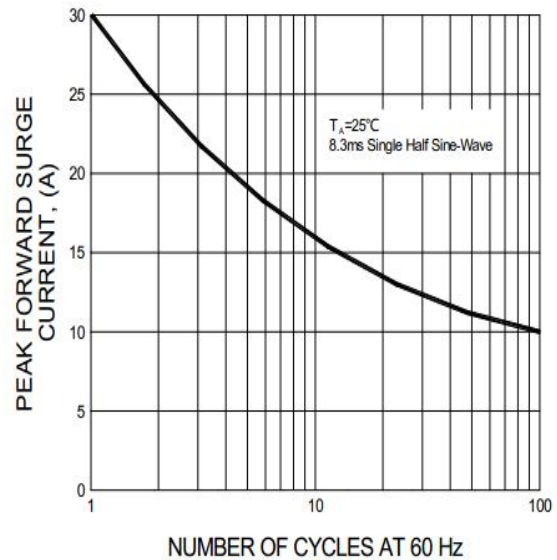


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

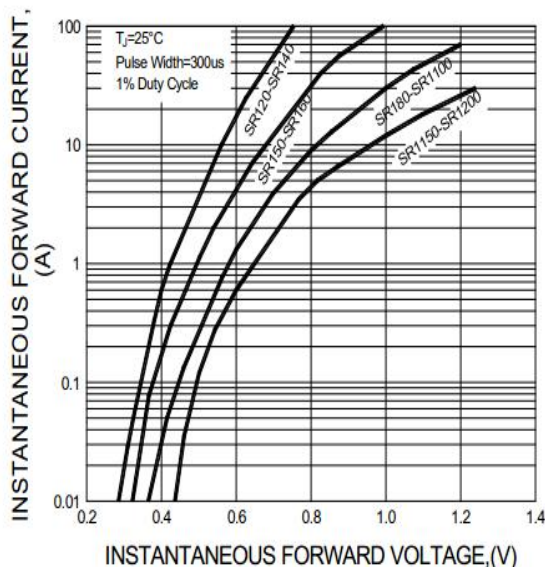
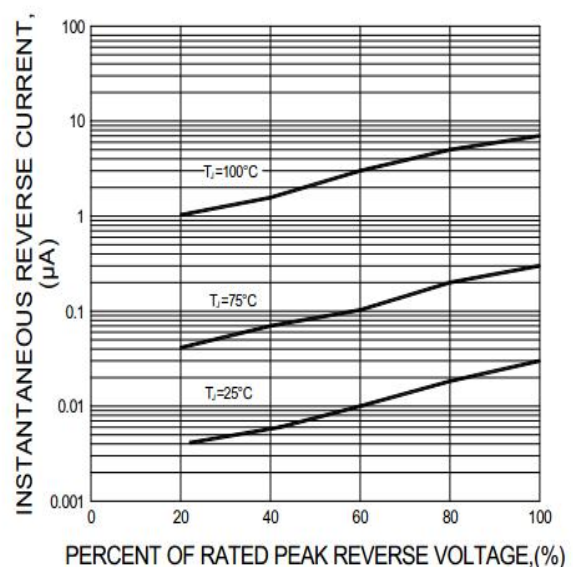


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.