



# SR220 THRU SR2200

Reverse Voltage - 20 to 200 Volts Forward Current - 2.0 Ampere

## SCHOTTKY BARRIER RECTIFIER

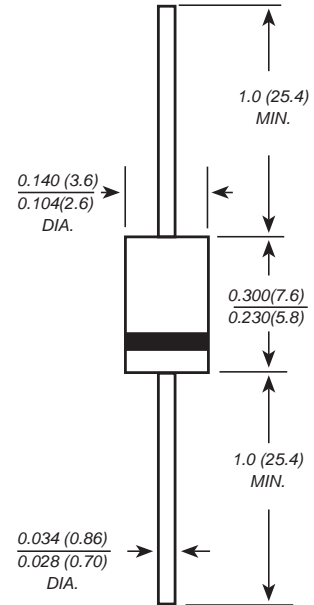
### Features

- ◆ 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-15 Molded plastic body  
**Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026  
**Polarity** : Polarity symbol marking on body  
**Mounting Position** : Any  
**Weight** : 0.014 ounce, 0.40 grams

DO-15



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 220	SR 230	SR 240	SR 250	SR 260	SR 270	SR 280	SR 290	SR 2100	SR 2150	SR 2200	UNITS	
		MDD SR 220	MDD SR 230	MDD SR 240	MDD SR 250	MDD SR 260	MDD SR 270	MDD SR 280	MDD SR 290	MDD SR 2100	MDD SR 2150	MDD SR 2200		
Maximum repetitive peak reverse voltage	$V_{RMM}$	20	30	40	50	60	70	80	90	100	150	200	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	49	56	63	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	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)	$I_{(AV)}$	2.0											A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60											A	
Maximum instantaneous forward voltage at 2.0A	$V_F$	0.55			0.70			0.85			0.95		V	
Maximum DC reverse current at rated DC blocking voltage	$I_R$	0.5										0.2	mA	
$T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$		10.0					5.0					2.0		
Typical junction capacitance (NOTE 1)	$C_J$	220				80								pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	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											°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

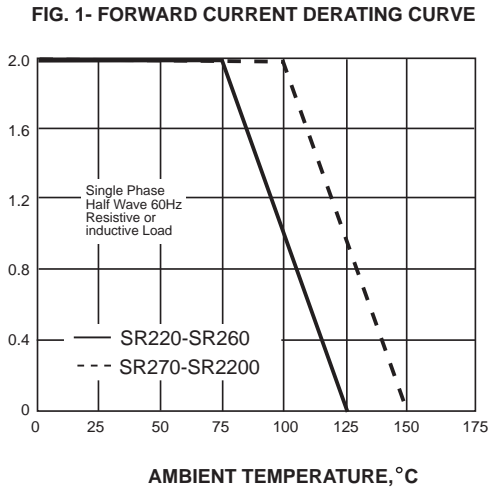


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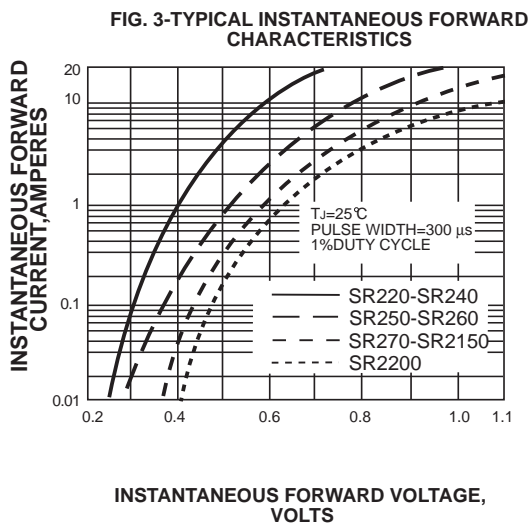
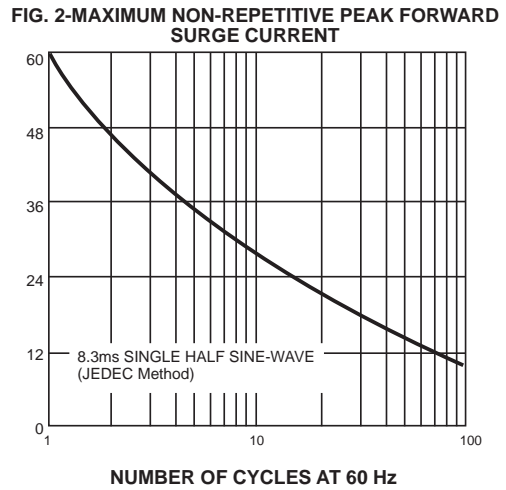
Reverse Voltage - 20 to 200 Volts Forward Current - 2.0 Ampere

## Ratings And Characteristic Curves

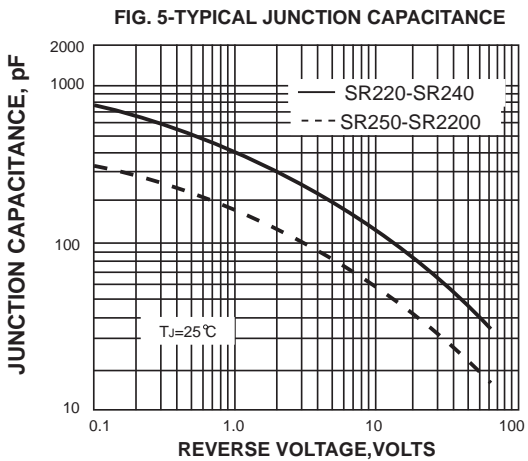
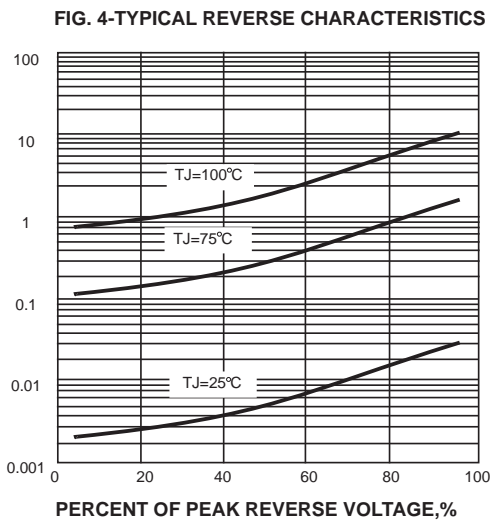
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



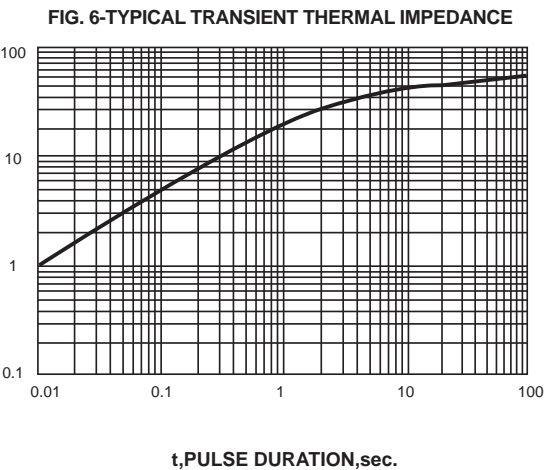
PEAK FORWARD SURGE CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



TRANSIENT THERMAL IMPEDANCE,  $^\circ\text{C/W}$



The curve above is for reference only.