

## SR220 THRU SR2200 SCHOTTKY BARRIER RECTIFIER



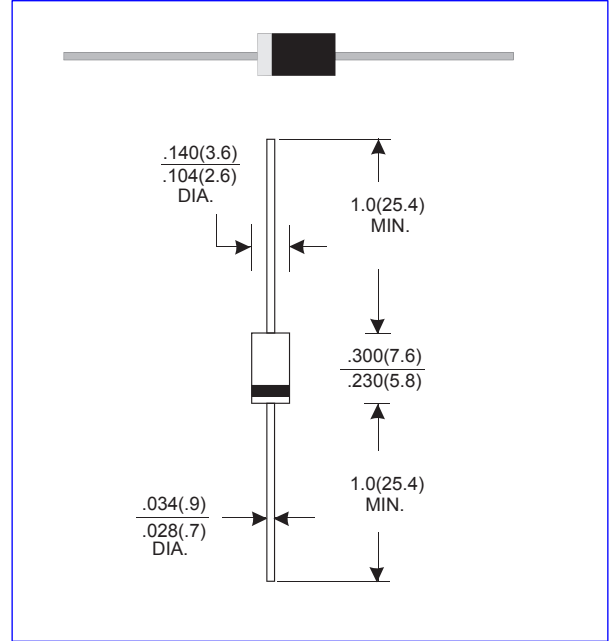
**VOLTAGE** 20 THRU 200Volts **CURRENT** 2.0 Ampers **DO-15** Unit:(mm)

### 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** : Plated axial leads, solderable per MIL-STD-750, Method 2026  
**Polarity** : Color band denotes cathode end  
**Mounting Position** : Any  
**Weight** : 0.014 ounce, 0.40 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C (UNLESS OTHERWISE NOTED))

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

	SYMBOLS	SR 220	SR 230	SR 240	SR 250	SR 260	SR 270	SR 280	SR 290	SR 2100	SR 2150	SR 2200	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	70	80	90	100	150	200	VOLTS	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	49	56	63	70	105	140	VOLTS	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	70	80	90	100	100	200	VOLTS	
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	$I_{(AV)}$	2.0											Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60.0											Amps	
Maximum instantaneous forward voltage at 2.0A	$V_F$	0.55		0.70		0.85			0.95			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					0.2			0.2			mA	
		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											$^\circ\text{C}/\text{W}$	
Operating junction temperature range	$T_J$	-65 to +125					-65 to +150							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-65 to +150											$^\circ\text{C}$	

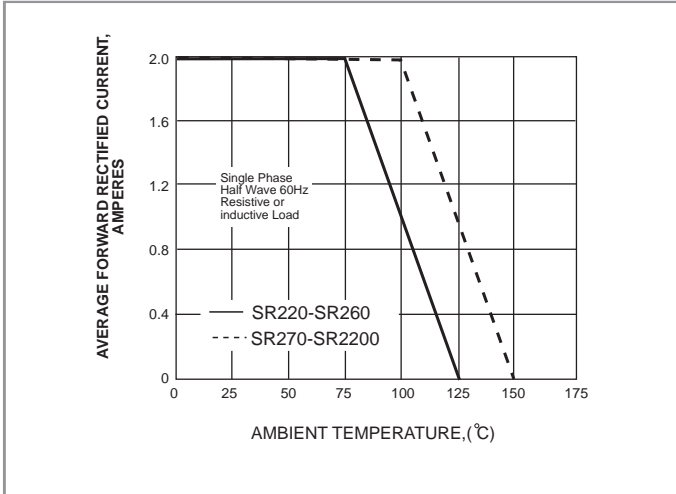
**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

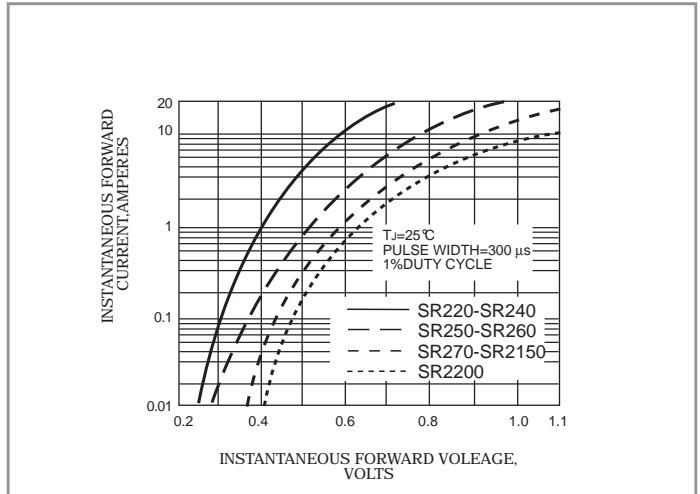
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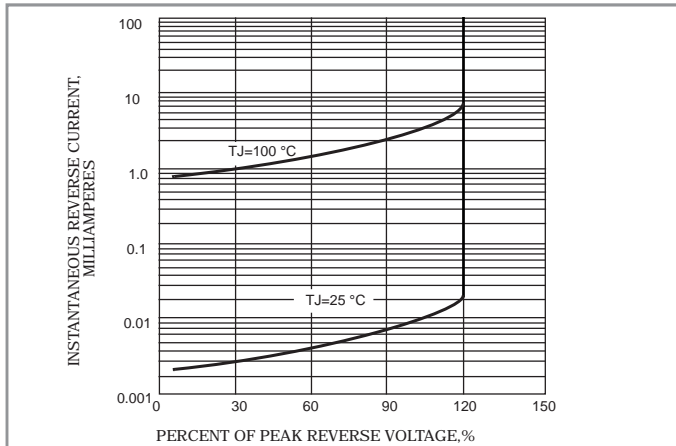
**RATING AND CHARACTERISTIC CURVES**



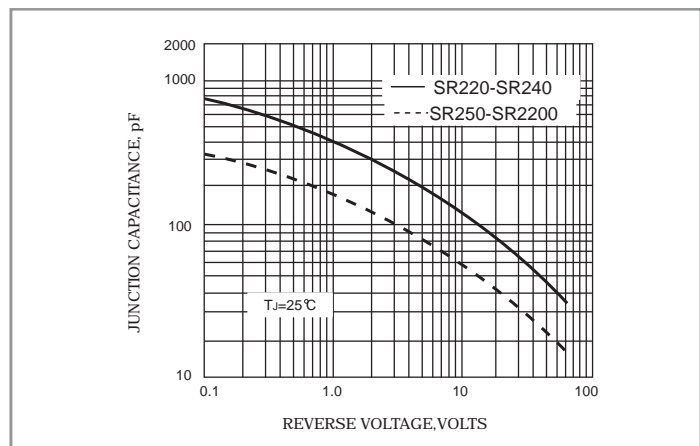
**Fig.1-FORWARD CURRENT DERATING CURVE**



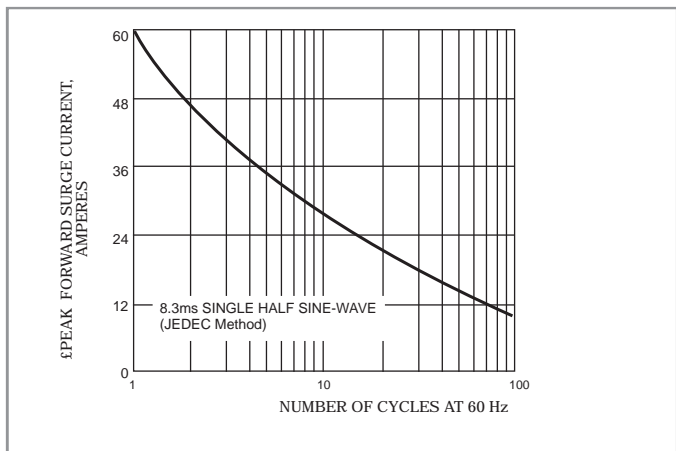
**Fig.2-TYPICAL INSTANTANEOUS FORWARD CURRENT**



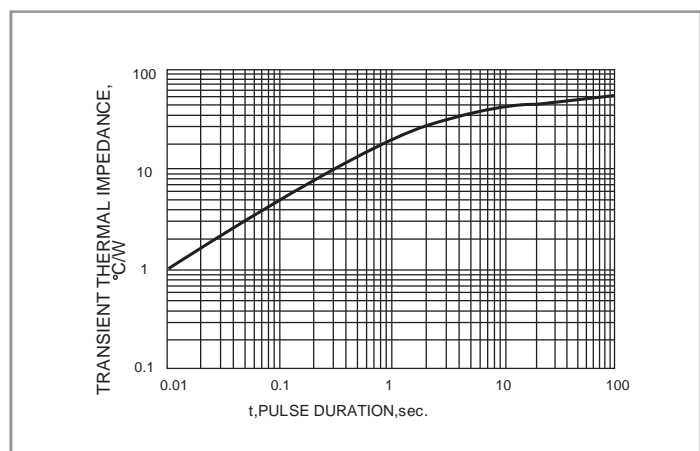
**Fig.3-TYPICAL REVERSE CHARACTERISTICS**



**Fig.4-TYPICAL JUNCTION CAPACITANCE**



**Fig.5-MAXIMUM NON-REPETITIVE SURGE CURRENT**



**FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE**



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**ORDER INFORMATION**

- Packing information  
T/R - 3K per BOX