

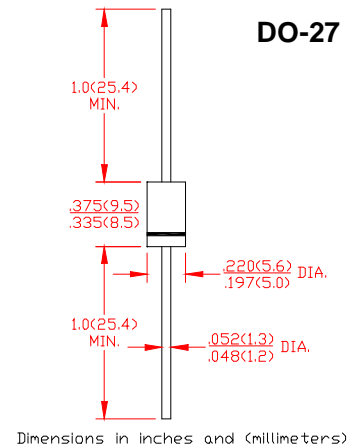
**Schottky Barrier Rectifiers**  
**SR320 THRU SR3200**
**VOLTAGE RANGE** 20 to 200 Volts  
**Forward Current** 3.0 Amperes

**FEATURES**

- | Fast switching
- | Low forward voltage, high current capability.
- | Low power loss high efficiency
- | High current surge capability
- | Fast switching for high efficiency
- | High temperature soldering guaranteed:  
250°C/10 second, at terminals

**MECHANICAL DATA**

- | Case: Transfer molded plastic
- | Terminal: UL94v-0 rate flame retardant
- | Polarity: Color band denotes cathode end.
- | Lead plated axial lead ,solderable per MIL-STD-202E method 208C
- | Mounting position: Any.
- | Weight: 0.042 ounce 1.19 gram


**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 derate current by 20%.

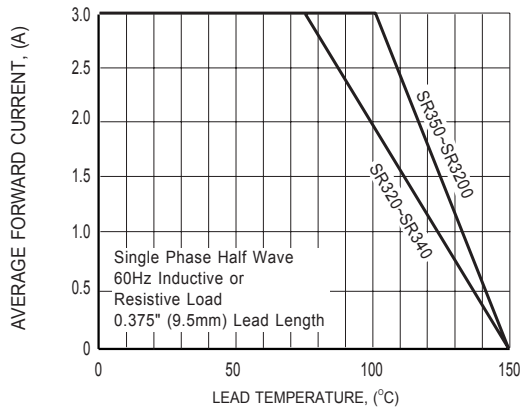
RATINGS	SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	$I_O$	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	80									Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40									°C/W
	$R_{\theta JL}$	10									
Typical Junction Capacitance (Note 3)	$C_J$	200									pF
Operating Temperature Range	$T_J$	150									°C
Storage Temperature Range	$T_{STG}$	-55 to + 150									°C

**ELECTRICAL CHARACTERISTICS (@ $T_A=25^\circ\text{C}$  unless otherwise noted)**

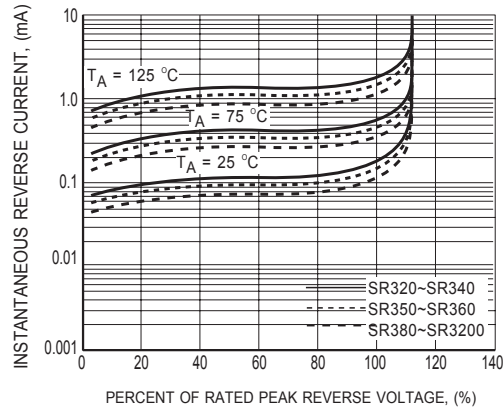
CHARACTERISTICS	SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	$V_F$	.55		.75		.85					Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	$I_R$	@ $T_A = 25^\circ\text{C}$		0.2					mA		
		@ $T_A = 100^\circ\text{C}$		2					mA		

NOTES : 1. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.  
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.  
 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

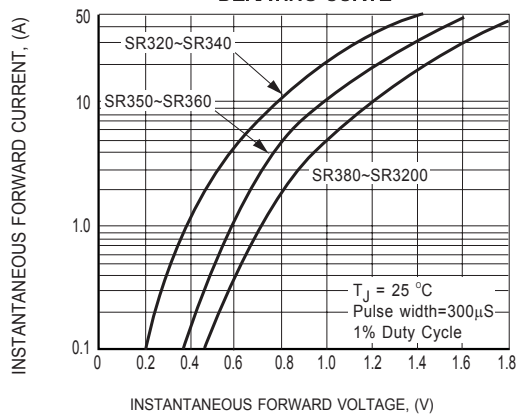
**RATING AND CHARACTERISTICS CURVES ( SR320 THRU SR3200 )**



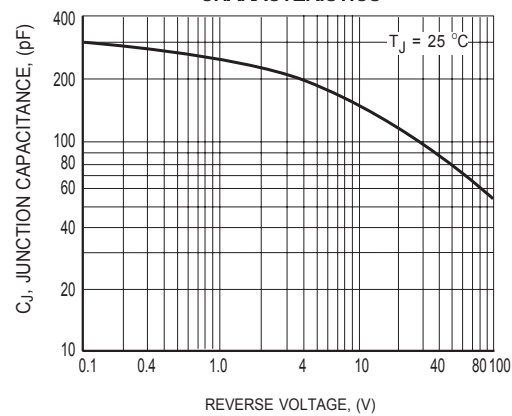
**FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE**



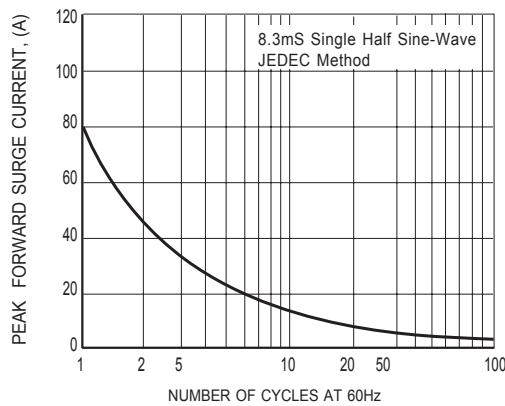
**FIG.2 TYPICAL REVERSE CHARACTERISTICS**



**FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4 TYPICAL JUNCTION CAPACITANCE**



**FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**

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