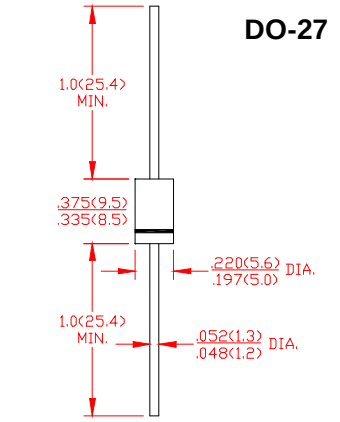
HAOLIN ELECTRONICS

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

DO-27



Dimensions in inches and (millimeters)

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(@TA=25 °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	@T_A = 25°C	I_R	0.2									mA
at Rated DC Blocking Voltage	@T_A = 100°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)".

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RATING AND CHARACTERISTICS CURVES (SR320 THRU SR3200)

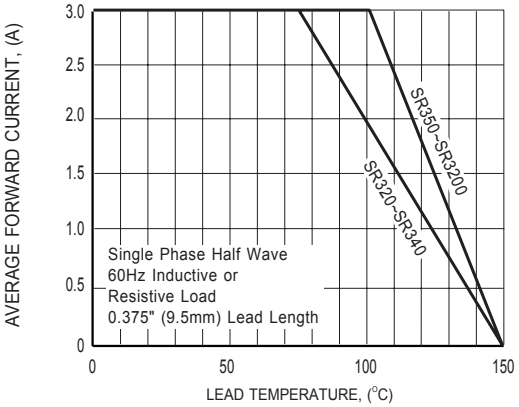

FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

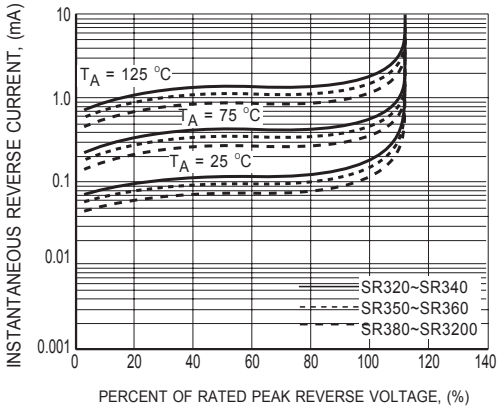

FIG.2 TYPICAL REVERSE CHARACTERISTICS

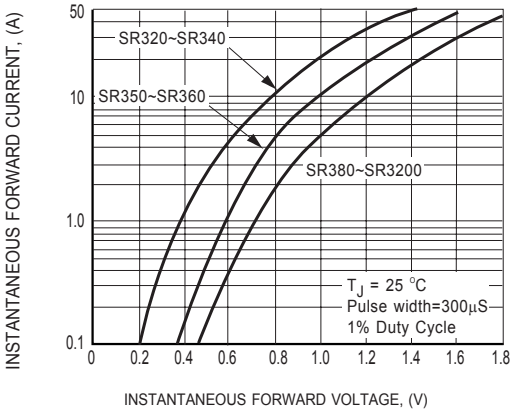

FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

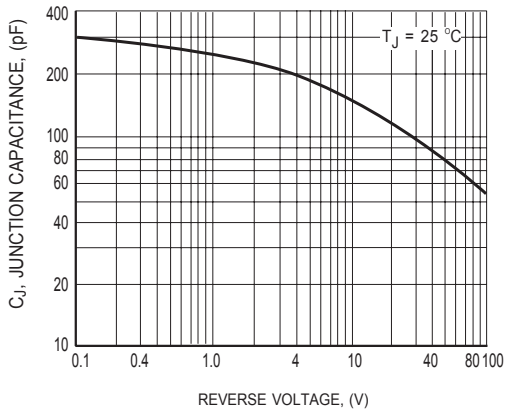

FIG.4 TYPICAL JUNCTION CAPACITANCE

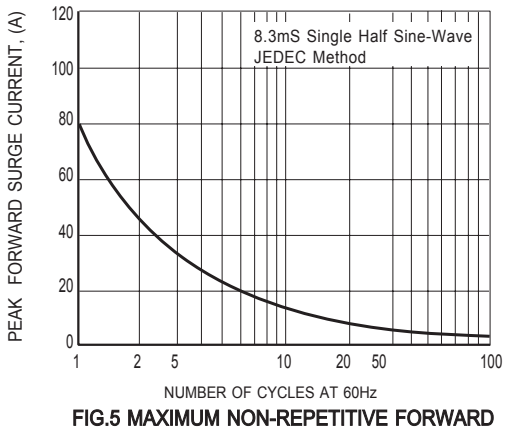

FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT