



DO-27 Plastic-Encapsulate Transistors

Schottky Barrier Rectifiers	
SR320 THRU SR3100	

VOLTAGE RANGE	20 to 100 Volts
Forward Current	3.0 Amperes

FEATURES

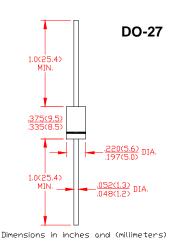
- Fast switching
- Low forward voltage, high current capability.
- I Low power loss high efficiency
- High current surge capability
- Fast switching for high efficiency
- I High temperature soldering guaranteed: 250 °C/10 second, at terminals

MECHANICAL DATA

- I Case: Transfer molded plastic
- I Terminal: UL94v-0 rate flame retardant
- Polarity: Color band denotes cathode end.
- I Lead Plated axial lead ,solderable per MIL-STD-202E method 208C

I 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%.

		SYMBOLS	SR320	SR330	SR340	SR350	SR360	SR380	SR390	SR3100	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Cu	I _(AV)	3.0								Amps	
Peak Forward Surge Current 8.3ms single superimposed on rated load (JEDEC Met	I _{FSM}	100								Amps	
Maximum Instantaneous Forward Voltage Drop per bridge element at 3A		$V_{\rm F}$	0.55			0.	0.70 0.8		0.85		Volts
Maximum DC Reverse Current at rated			3.0								MAmps
DC blocking voltage per element	$T_A=100$ °C	I _R	30								WAmps
Typical Junction Capacitance (Note 2)		C_{J}	200							pF	
Typical Thermal Resistance (Note 3)		$R_{\theta JA}$	40							°C/W	
Operating and Storage Temperature Range		TJ	-65 to +125		-65 to +150					°C	
Storage Temperature Range		T _{STG}	-65 to +150						°C		

NOTES:

1. Pulse test: 300 us pulse width 1% duty cycle

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

3. Thermal resistance from junction to ambient P.C.B mounted with 0.375"(9.5mm) lead lengh with 1.5"X1.5"(38 X38mm) copper pads.

SHENZHEN HAOLIN ELECTRONICS TECHNOLOGY CO., LTD



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RATINGS AND CHARACTERISTIC CURVES SR320 THRU SR3100

