

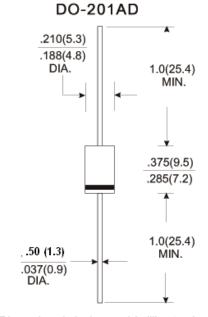
SCHOTTKY BARRIER RECTIFIER SR320THRU SR3200 20 to 200 V 3.0 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, Free wheeling and polarity protection applications
- High temperature soldering guaranteed: 250°C/10 seconds at terminals,
- 0.375"(9.5mm)lead length,5lbs.(2.3kg)tension

Mechanical Data

- Case: JEDEC DO-201AD molded plastic body
- Terminals: solder plated ,solder able per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.041ounce,1.20 gram



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, derate current by 20%.

	Symbols	SR 320	SR 330	SR 340	SR 350	SR 360	SR 380	SR 3100	SR 3150	SR 3200	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	57	71	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length (See Fig.1)	I _(AV)	3.0									Amp
Peak Forward Surge Current, 8.3ms single half- sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80.0									Amp
Maximum instantaneous forward voltage at3.0 A(Note 1)	V_{F}	0.55		0.	.70	0.85		0.90	0.95	Volts	
Maximum Reverse Current T _A =25°C at Rated DC Blocking Voltage T _A =100°C	I _R	0.5									m Amp
		20 10									
Typical junction capacitance(Note 3)	CJ	250 160						₽F			
Maximum Reverse Recovery Time (Note 4)	T_RR	15									nS
Typical Thermal Resistance (Note 2)	R⊕ JA R⊕ JC	40.0 10.0									°C/W
Operating Temperature Range	TJ	-65 to +150									$^{\circ}$
Storage Temperature Range	T _{STG}	-65 to +150									$^{\circ}$

NOTES:

- 1. Pulse test: 300 μ s pulse width, 1% duty cycle
- 2. Thermal resistance from junction to lead vertical P.C.B. mounted, 0.5"(12.7mm) lead length With 2.5X2.5"(63.5X63.5mm) copper pads
- 3. Measured at 1.0MHz and reverse voltage of 4.0 volts
- 4. Reverse Recovery Test Conditions: IF =0.5A, IR =1.0A, IRR =0.25A



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RATINGS AND CHARACTERISTIC CURVES (SR320 THRU SR3200)

FIG.1-FORWARD CURRENT DERATING CURVE

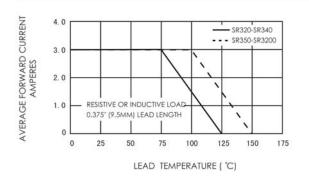
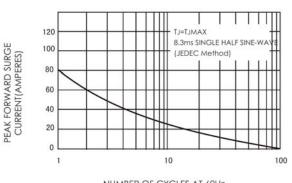


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG.3-TYPICAL INSTANTANEOUS FORWARD **CHARACTERISTICS**

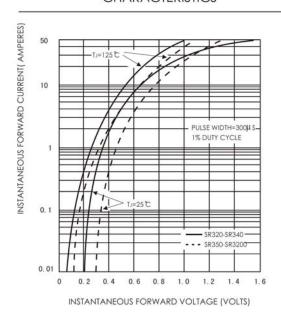
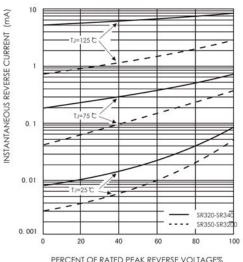


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE%

FIG.5-TYPICAL JUNCTION CAPACITANCE

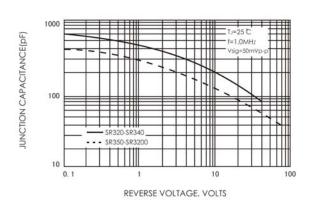


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

