

SR320 - SR3200	Reverse Voltage : 20 to 200 Volts Forward Current : 3.0 Amperes

FEATURES

Plastic package has underwriters laboratory flammability classification 94V-0 Metal silicon junction, majority carrler conduction Guard ring for overvoltage protection Low power loss, high efficiency High current capavility, 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:260°C/10 seconds at terminals Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

Case: JEDEC DO-201 AD molded plastic body Terminals: Plated axial leads, solderable per MIL-SRD-750,method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.041 ounce, 1.15 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25^o C ambient temperature unless otherwise specified single phase, half wave, resistive or inductive load. for capacitive load, derate by 20%.)

		SYMBOLS	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	Units
Maximum Repetitive 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 0 375"(9 5mm) lead length		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									Amps
Maximum Instantaneous Forward Voltage at 3.0A(Note		1) V _F	0.55			0	.70	0.85		0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	I _R		20			0.2	10				mA
Typical Junction Capacitance (NOTE 3)		C _J	250 160						pF			
Typical Thermal Resistance (NOTE 2)		$rac{R_{ heta JA}}{R_{ heta Jl}}$	40.0 10.0									-°C/₩
Operating junction Temperature Range		$\overline{T_J}$	-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. Thermal resistance from junction to lead vertical P.C.B. mounted, 0.5" (12.7mm) lead length with 2.5*2.5"(63.5*63.5mm) copper pads
- 3. Measured at 1MHz and reverse voltage of 4.0 volts

DO-201AD

1.0(23.4)

0.375 (9.50) 0.285 (7.20)

1.0 (23.4)

MIN

Dimensions in inches and (millimeters)

0.052(1.32)

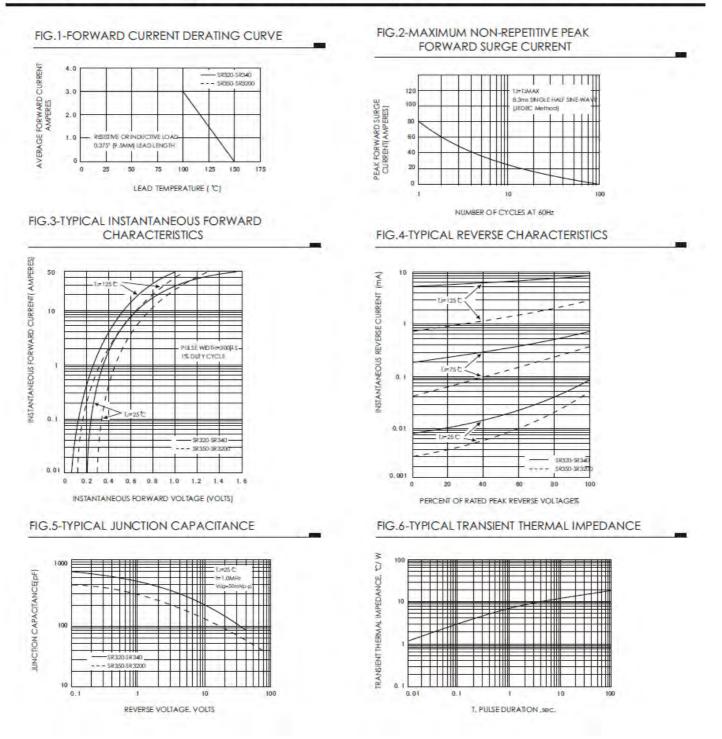
0.048 (1.18) DIA



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RATINGS AND CHARACTERISTIC CURVES SR320 THRU SR3200



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