

Voltage Range SR520 - SR5200

Forward Current

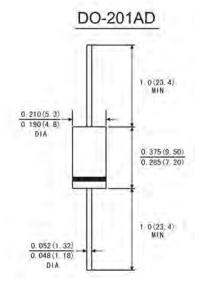
20 to 200 Volts 5.0 Amperes

## **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- Single rectifier construction
- 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, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



- Case: JEDEC TO-220AC molded plastic body
- Terminals: Solderable per MIL-STD-202, method 2026
- Polarity: As marked Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		Symbols	SR 520	SR 530	SR 540	SR 550	SR 560	SR 580	SR 5A0	SR 5150	SR 5200	Units
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage		VRMS	14	21	28	35	42	57	71	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length (see fig.1)		l(AV)	5.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load JEDEC method		lғsм	150.0									Amps
Maximum Instantaneous Forward Voltage at 30.0 A		VF	0.55			0.	0.70 0.		85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Ta =25 °C		0.20									
	Ta =125 °C	IR		50		25						mA
Typical junction capacitance(Note 3)		Сл	500			400						pF
Typical thermal resistance (Note 2)		Reja Rejl	25.0 8.0									°C/W
Operating junction and storage temperature range		TJ/ TsтG	-65 to +150									°C

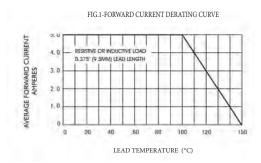
## **Notes:**

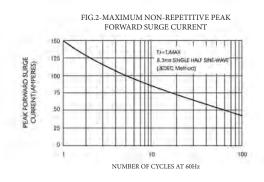
- Pulse test: 300 µs pulse width 1% duty cycle 1.
- Thermal resistance from junction to lead vertical P.C.B. mounted, 0.375" (9.5mm) lead length
- Measured at 1MHz and reverse voltage of 4.0 volts

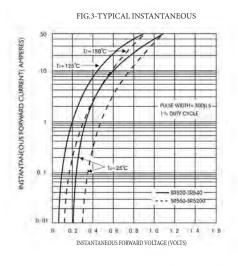
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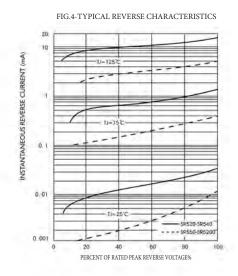


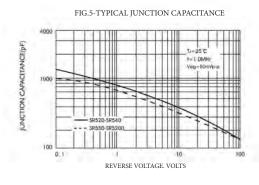
## RATINGS AND CHARACTERISTIC CURVES SR520 - SR5200

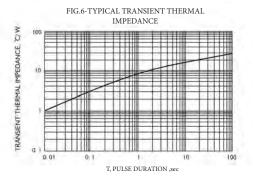












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