



SCHOTTKY BARRIER RECTIFIER

SR520 THRU SR5100

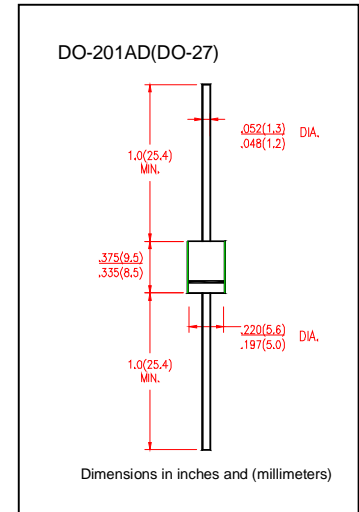
VOLTAGE RANGE 20 to 100 Volts  
CURRENT 5.0 Ampere

FEATURES

- Fast switching speed
- Low forward voltage
- Low power high efficiency
- High surge capability
- High temperature soldering guaranteed  
250°C/10 seconds,0.373”(9.5mm)lead length

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: solderarable per MIL-STD-202E method 208C
- Polarity: Color band denoted cathode end
- Mounting position: Any
- Weight: 0.045 ounce, 1.27 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	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current,0.375”(9.5mm)Lead length,(Note 1)See Fig.1	T <sub>L</sub> = 60°C(SR502-504)	5.0							Amps
	T <sub>L</sub> = 85°C(SR505-510)								
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150							Amps
Maximum Instantaneous Forward Voltage @ 5.0A	V <sub>F</sub>	0.55		0.75		0.85		Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage per element (Note 1)	T <sub>A</sub> = 25°C	1.0							mA
	T <sub>A</sub> = 100°C	50							
Typical Junction Capacitance(Measured at 1.0Hzand applied reverse voltage of 4.0V)	C <sub>J</sub>	550		450		350		pF	
Typical Thermal Resistance	R <sub>θJA</sub>	15							°C/W
Operating Junction Temperature Range	T <sub>J</sub>	(-55 to +150)							°C
Storage Temperature Range	T <sub>STG</sub>	(-55 to +150)							°C

Notes:

1. Pulse test:300 μ s pulse width,1% duty cycle



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RATING AND CHARACTERISTIC CURVES SR520 THRU SR5100

