



SCHOTTKY BARRIER RECTIFIER

SR502 THRU SR510

VOLTAGE RANGE

20 to 100 Volts

CURRENT

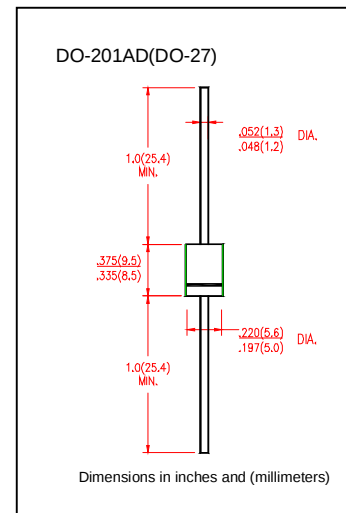
5.0 Ampere

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: solderable 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	SR502	SR503	SR504	SR505	SR506	SR508	SR510	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		V _{DC}	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 _L = 60℃(SR502-504)	I _(AV)	5.0							Amps
	T _L = 85℃(SR505-510)									
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	150							Amps
Maximum Instantaneous Forward Voltage @ 5.0A		V _F	0.55		0.75		0.85			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element (Note 1)	T _A = 25℃	I _R	1.0							mA
	T _A = 100℃		50							
Typical Junction Capacitance(Measured at 1.0Hzand applied reverse voltage of 4.0V)		C _J	550		450		350			pF
Typical Thermal Resistance		R _{θJA}	15							℃/W
Operating Junction Temperature Range		T _J	(-55 to +150)							℃
Storage Temperature Range		T _{STG}	(-55 to +150)							℃

Notes:

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



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RATING AND CHARACTERISTIC CURVES SR502 THRU SR510

