

SCHOTTKY BARIER RECTIFIER

SR202 THRU SR210

VOLTAGE RANGE CURRENT 20 to 100 Volts 2.0 Ampere

FEATURES

Fast switching

• Low forward voltage

• Low power loss for high efficiency

• High Surge capability

• High temperature Soldering guaranteed: 250 °C/10 seconds, 0.373" (9.5mm) lead length

MECHANICAL DATA

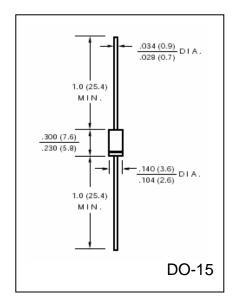
Case: Transfer molded plastic

Epoxy: UL94V-0 rate flame retardantLead: Solderable per MIL-STD-202E

Method 208C
• Polarity: Color band denotes cathode end

• Mounting Position: Any

• Weight: 0.014 ounce, 0.39 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	SR202	SR203	SR204	SR205	SR206	SR208	SR210	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), $T_L = 90^{\circ}\text{C}$ (SR202-204), $T_L = 110^{\circ}\text{C}$ (SR205-210),	I _(AV)	2.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	50							Amps
Maximum Instantaneous Forward Voltage @ 2.0A (Note 1)	$V_{\rm F}$	0.55 0.75 0.85				.85	Volts		
Maximum DC Reverse Current at Rated $T_A = 25$ °C DC Blocking Voltage per element (Note 1) $T_A = 100$ °C	I_R	2.0 20							mA
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_{J}	170							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							^o C/W
Operating Junction Temperature Range	T_{J}	(-55 to +150)							^o C
Storage Temperature Range	T_{STG}	(-55 to +150)							^o C

Notes:

- 1. Pulse test: 300μS pulse width, 1% duty cycle
- 2. Thermal resistance from junction to ambient PCB mounted with 0.375" (9.5mm) lead length with 2.5" x 2.5" (63.5cm x 63.5cm) copper pads



RATINGS AND CHARACTERISTIC CURVES SR202 THRU SR210

