

SCHOTTKY BARIER RECTIFIER

SR102 THRU SR110

VOLTAGE RANGE CURRENT

20 to 100 Volts 1.0 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

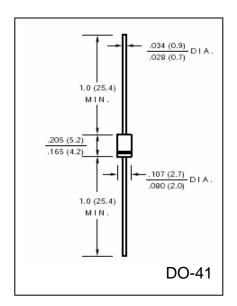
Epoxy: UL94V-0 rate flame retardantLead: Solderable per MIL-STD-202E

Method 208C

Polarity: Color band denotes cathode end

Mounting Position: Any

• Weight: 0.012 ounce, 0.33 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

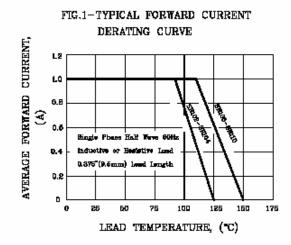
- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

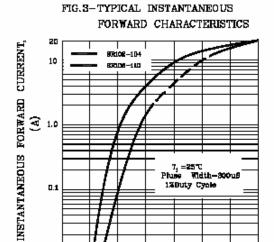
	SYMBOLS	SR102	SR103	SR104	SR105	SR106	SR108	SR110	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) lead length, (Note 1) $T_L = 75^{\circ}C$ (SR102-104), $T_L = 100^{\circ}C$ (SR105-110),	$I_{(AV)}$	1.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	40							Amps
Maximum Instantaneous Forward Voltage @ 1.0A	$V_{\rm F}$	0.55 0.70 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	1.0 10							mA
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_{J}	110							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50							^o C/W
Operating Junction Temperature Range	$T_{\rm J}$	(-55 to +125) (-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 1.5" x 1.5" (38cm 38cm) copper pads

RATINGS AND CHARACTERISTIC CURVES SR102 THRU SR110



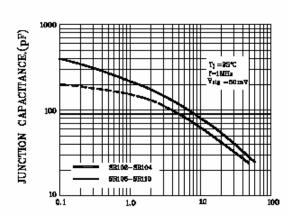


INSTANTANEOUS FORWARD VOLTAGE, (V)

0.8

0.01 L 0.8





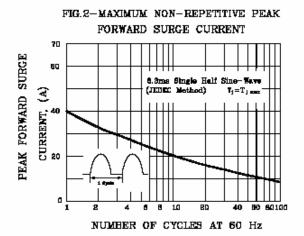


FIG. 4-TYPICAL REVERSE
CHARACTERISTICS

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SRIGD-SRIGO
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