



SR202 THRU SR204

2.0 AMPS. SCHOTTKY BARRIER RECTIFIERS

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: DO-41 Molded plastic
- * Epoxy: UL 94V - 0 rate flame retardant
- * Lead: Axial leads, solderable per MIL - STD - 202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Weight: 0.33grams

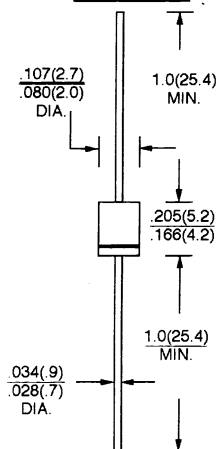
VOLTAGE RANGE

20 to 40 Volts

CURRENT

2.0 Amperes

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	SR202	SR204	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	V
Maximum RMS Voltage	V_{RMS}	14	28	V
Maximum DC Blocking Voltage	V_{DC}	20	40	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{F(AV)}$	2.0		A
Peak Forward Surge Current (8.3 ms, half sine)	I_{FSM}	50		A
Maximum Instantaneous Forward Voltage @ 2.0A (Note 1)	V_F	0.550		V
Maximum D. C Reverse Current @ $T_J = 25^\circ\text{C}$ at Rated D. C Blocking Voltage	I_R	1.0		mA
Maximum Thermal Resistance (Note 2)	$R_{\theta JA}$	35		$^\circ\text{C/W}$
Typical Junction Capacitance (Note 3)	C_J	120		pF
Operating and Storage Temperature Range	T_J/T_{STG}	- 65 to + 125 / - 65 to + 150		$^\circ\text{C}$

NOTE: (1) Pulse test: $t_p = 300\mu\text{s}$, 1% duty cycle

(2) Thermal Resistance Junction to Ambient Vertical PC Board Mounting, .375"(9.5mm) Lead Length with $1.5 \times 1.5\text{cm}$ ($38 \times 38\text{mm}$) copper pads.

(3) Measured at 1 MHz and applied reverse voltage of 4.0V D. C.

RATINGS AND CHARACTERISTIC CURVES (SR202 THRU SR204)

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

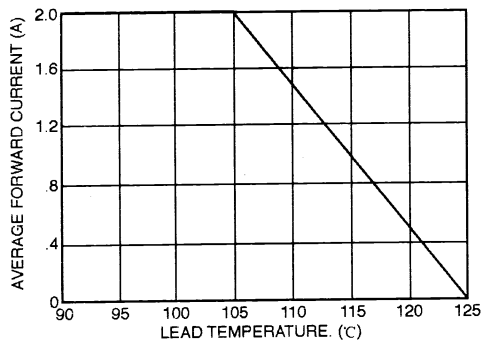


FIG. 2 – TYPICAL FORWARD CHARACTERISTICS

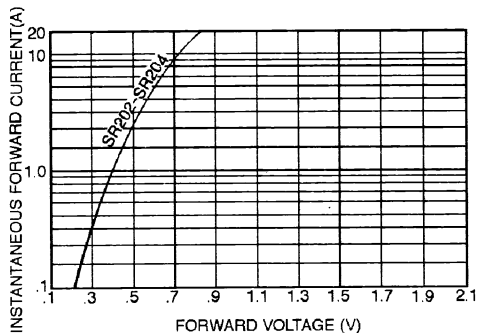


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

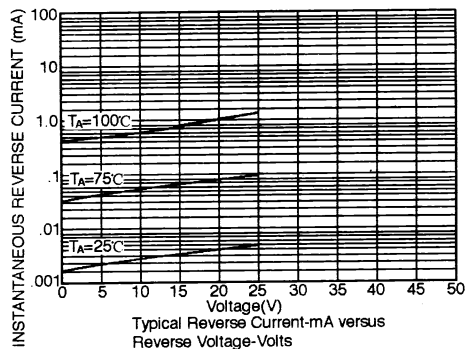


FIG. 4

MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

