JGD

SR202 THRU SR204

2.0 AMPS. SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
20 to 40 Volts
CURRENT
2.0 Amperes

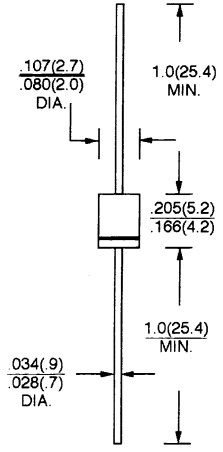
FEATURES

* 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

DO-41



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 H_Z, 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℃ at Rated D.C Blocking Voltage	I_R	1.0		mA
Maximum Thermal Resistance(Note 2)	$R_{\theta JA}$	35		℃/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		℃

NOTE: (1) Pluse test: tp = 300μs, 1% duty cycle
(2) Thermal Resistance Junction to Ambient Vertical PC Board Mounting, .375"(9.5mm) Lead Length wich 1.5 × 1.5cm(38 × 38mm) copper pads.
(3) Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

JGD

RATINGS AND CHARACTERISTIC CURVES (SR202 THRU SR204)

FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

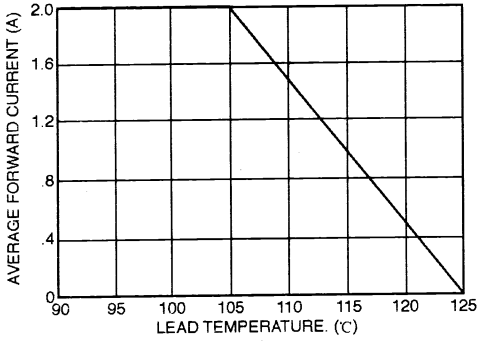


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

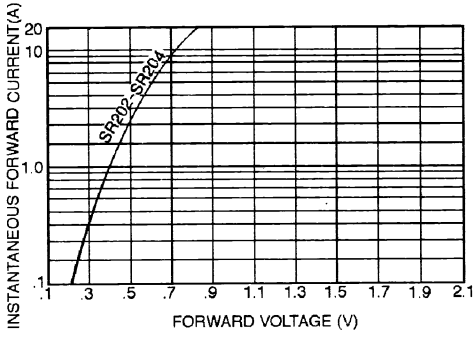


FIG.3 – TYPICAL REVERSE CHARACTERISTICS

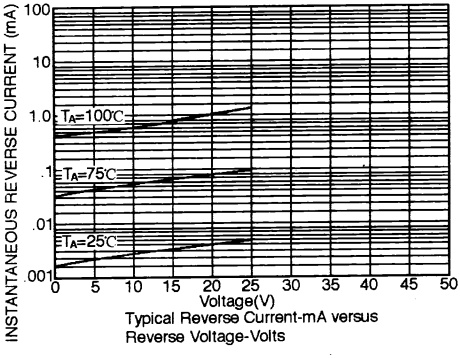


FIG.4

MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT