



SR320 THRU SR3100

3 A Schottky Barrier Rectifiers

Voltage Range 20 to 100 Volts
Current 3.0 Amperes

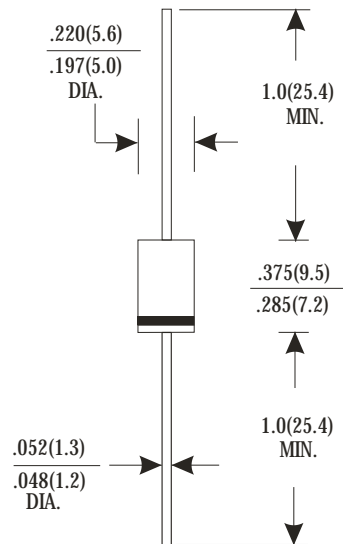
Features

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

Mechanical Data

- * Case: 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
- * Mounting position: Any
- * Weight: 1.2 grams

DO-201AD



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	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	v
Maximum RMS Voltage	14	21	28	35	42	56	70	v
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	v
Maximum Average Forward Rectified Current See Fig. 1	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sinewave - Superimposed on Rated Load method (JEDEC)	80							A
Maximum Instantaneous Forward Voltage @ 3.0A	0.55		0.70		0.85			V
Maximum D.C. Reverse Current @ T _A =25°C	1.5							mA
At Rated DC Blocking Voltage @ T _A =100°C	20		10					mA
Typical Junction Capacitance (Note 1)	250							pF
Typical Thermal Resistance R _{JA} (Note 2)	20							°C/W
Operating Junction Temperature Range T _J	-50+125							°C
Storage Temperature Range T _{STG}	-65+150							°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.



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RATING AND CHARACTERISTIC CURVES (SR320 THRU SR3100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

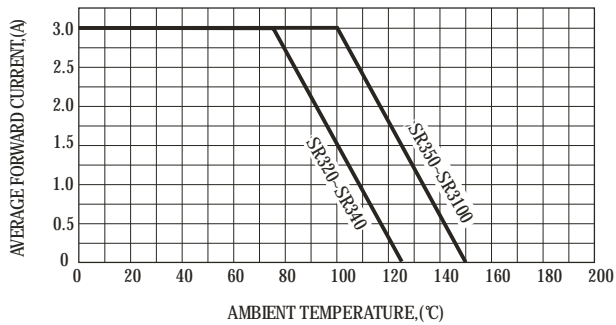


FIG.2-TYPICAL FORWARD CHARACTERISTICS

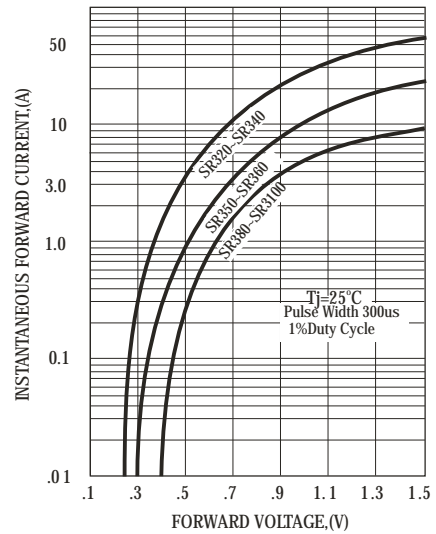


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

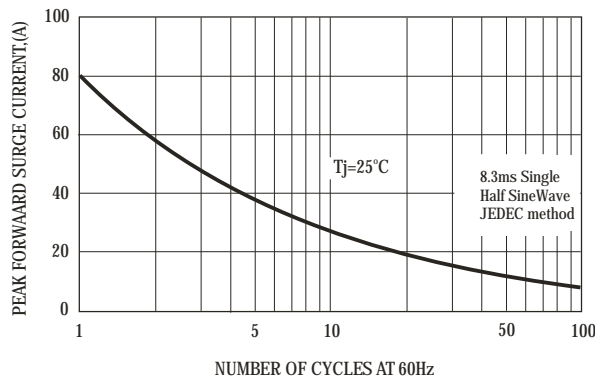


FIG.4-TYPICAL JUNCTION CAPACITANCE

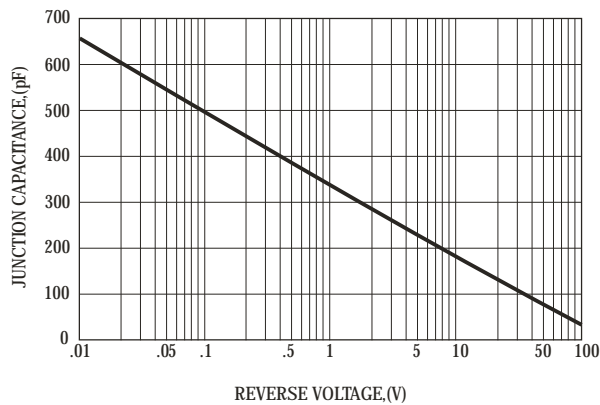


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

