



SR202 THRU SR206

2.0 AMPS. Schottky Barrier Rectifiers

Voltage Range
20 to 60 Volts
Current
2.0 Amperes

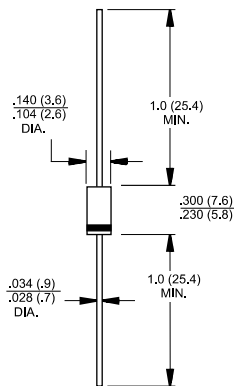
Features

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

Mechanical Data

- ✧ Cases: DO-15 molded plastic
- ✧ Epoxy: UL 94V-O rate flame retardant
- ✧ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ✧ Polarity: Color band denotes cathode end
- ✧ High temperature soldering guaranteed: 250°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ✧ Weight: 0.4 gram

DO-15



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	SR202	SR203	SR204	SR205	SR206	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1	2.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50					A
Maximum Instantaneous Forward Voltage@2.0 A	0.55			0.70		V
Maximum D.C. Reverse Current @ T _A =25°C	0.5					mA
at Rated DC Blocking Voltage @ T _A =100°C	20					mA
Typical Thermal Resistance (Note 1) RθJA	45					°C/W
Typical Junction Capacitance (Note 2)	200			160		pF
Operating Junction Temperature Range T _J	-65 to +125			-65 to +150		°C
Storage Temperature Range T _{STG}	-65 to +150					°C

Notes: 1. Thermal Resistance from Junction to Ambient Vertical P.C. Board Mounting, 0.375" (9.5mm) Lead Length

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES (SR202 THUR SR206)

FIG.1- FORWARD CURRENT DERATING CURVE

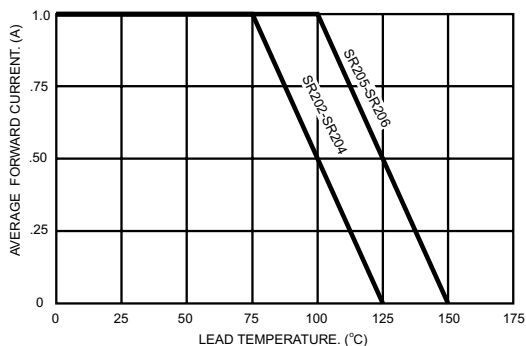


FIG.2- TYPICAL FORWARD CHARACTERISTICS

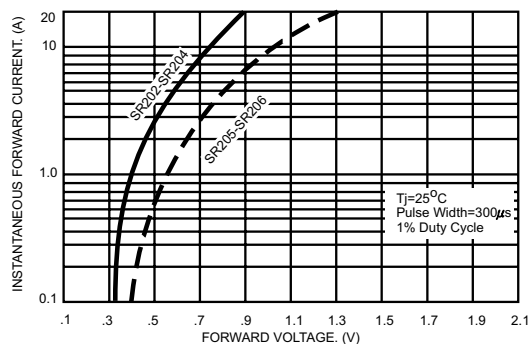


FIG.3- TYPICAL REVERSE CHARACTERISTICS

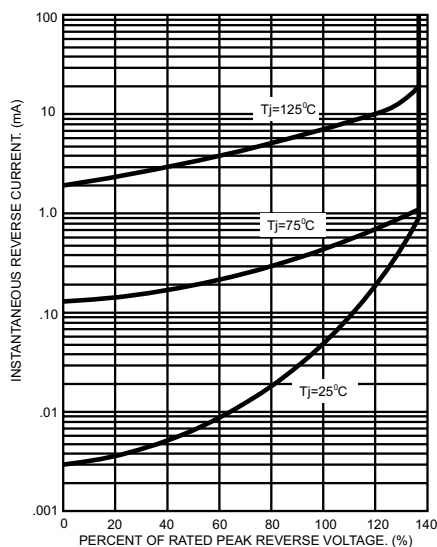


FIG.4- TYPICAL JUNCTION CAPACITANCE

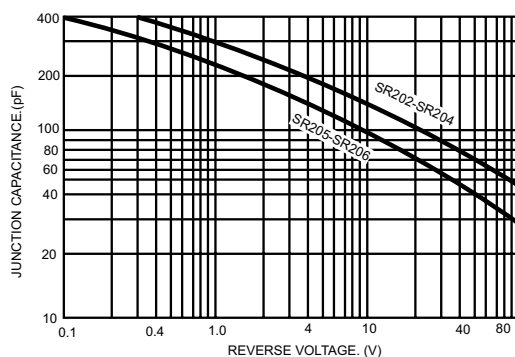


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

