



SR802 THRU SR810

8.0 AMPS. Schottky Barrier Rectifiers

	Voltage Range 20 to 100 Volts Current 8.0 Amperes
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Features

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

Mechanical Data

- ✧ Cases: DO-201AD 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: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ✧ Weight: 1.1 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	Symbol	SR 802	SR 803	SR 804	SR 805	SR 806	SR 809	SR 810	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{(AV)}$	8.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	175					150		A
Maximum Instantaneous Forward Voltage @8.0A	V_F	0.55			0.70		0.92		V
Maximum D.C. Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	0.5 50					0.1 -		mA mA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40							°C/W
Typical Junction Capacitance (Note 2)	C_j	500			270		165		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. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES (SR802 THRU SR810)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

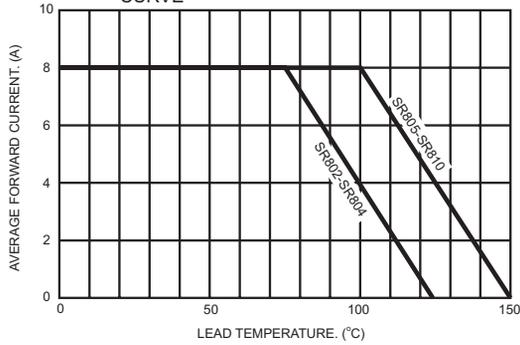


FIG.2- TYPICAL FORWARD CHARACTERISTICS

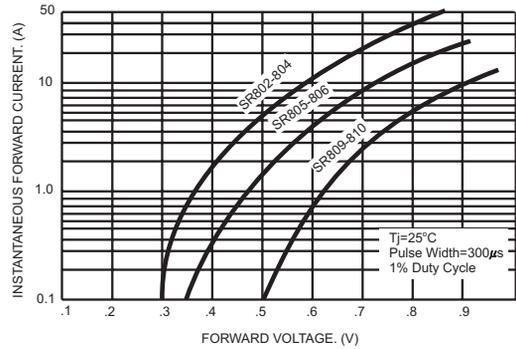


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

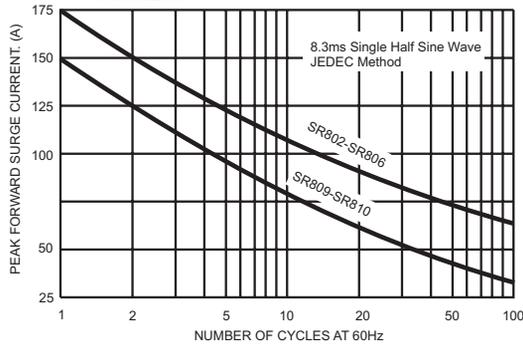


FIG.5- TYPICAL REVERSE CHARACTERISTICS

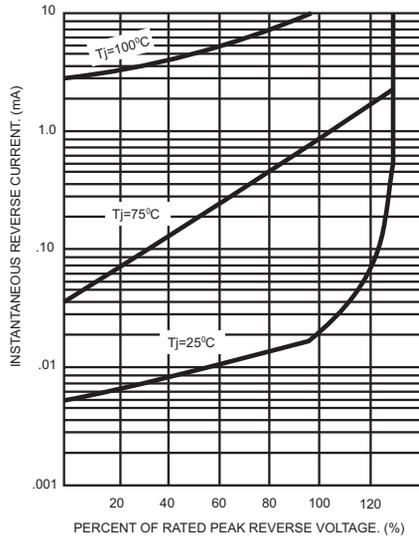


FIG.4- TYPICAL JUNCTION CAPACITANCE PER LEG

