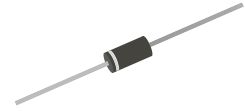


## SR202-G Thru. SR210-G

Forward current: 2.0A

Reverse voltage: 20 to 100V

RoHS Device

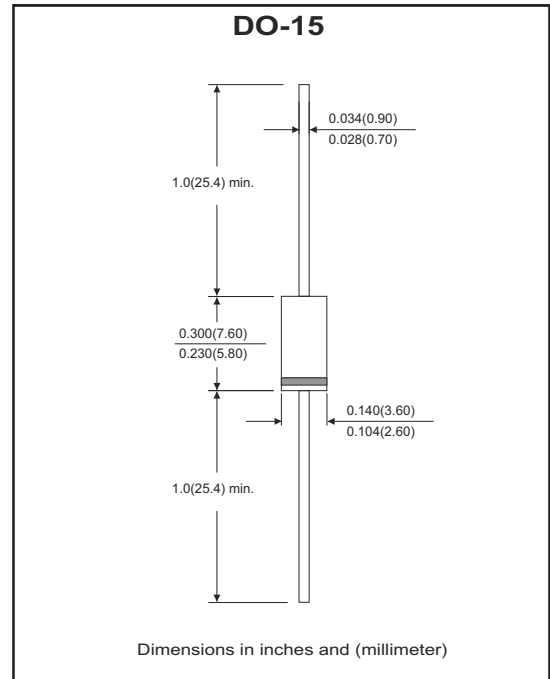


### Features

- Fast switching.
- Low forward voltage, high current capability.
- Low power loss, high efficiency.
- High current surge capability.
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length at 5lbs (2.3kg) tension.

### Mechanical Data

- Case: transfer molded plastic.
- Epoxy: UL94V-0 rate flame retardant.
- Polarity: color band denoted cathode end.
- Lead: plastic axial lead, solderable per MIL-STD-202E, method 208C.
- Mounting position: any.
- Weight: 0.39 gram.



### Maximum Ratings and Electrical Characteristics

Ratings at Ta=25°C unless otherwise noted.  
Single phase, half wave, 60Hz, resistive or inductive loaded.  
For capacitive load, derate current by 20% .

Parameter	Symbol	SR202 -G	SR203 -G	SR204 -G	SR205 -G	SR206 -G	SR208 -G	SR209 -G	SR210 -G	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	57	63	70	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	90	100	V
Maximum average forward rectified current, See fig.2	I <sub>AV</sub>	2.0								A
Peak forward surge current, 8.3ms single half sine-wave, superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50								A
Maximum instantaneous forward voltage at I <sub>F</sub> =2A	V <sub>F</sub>	0.55			0.75			0.85		V
Maximum DC reverse current at rated DC blocking voltage (Note 1)	I <sub>R</sub>	T <sub>A</sub> =25 °C T <sub>A</sub> =100 °C				2.0 20				mA
Typical junction capacitance (Note 2)	C <sub>J</sub>	150								pF
Typical thermal resistance (Note 3)	R <sub>θJA</sub>	40								°C/W
Operating junction temperature range	T <sub>J</sub>	-65 ~ +125				-65 ~ +150				°C
Storage temperature range	T <sub>STG</sub>	-65 ~ +150								°C

Note:

1. Test pulse: 300µS pulse width, 1% duty cycle.
2. Measured at 1MHz and applied reverse voltage of 4.0V.
3. Thermal resistance from junction to ambient P.C.B. mounted with 0.375" (9.5mm) lead length with 1.5"x1.5"(38x38mm) copper pads.

## RATING AND CHARACTERISTIC CURVES (SR202-G Thru. SR210-G)

Fig.1 Typical Forward Current Derating Curve

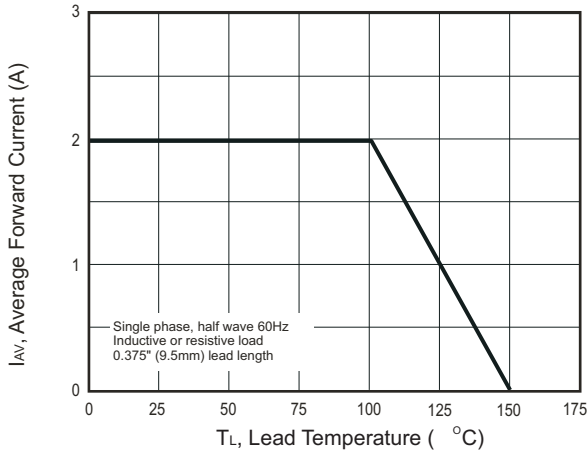


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

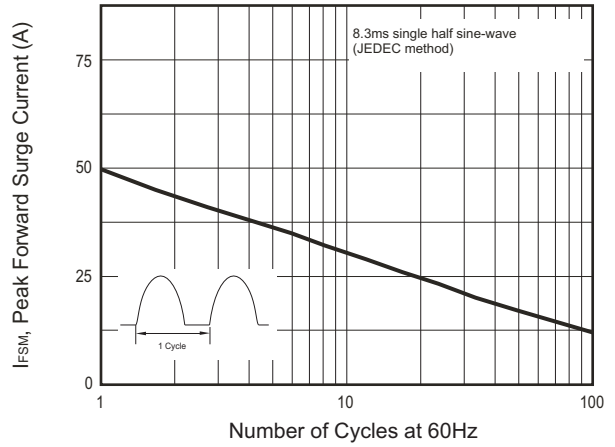


Fig.3 Typical Instantaneous Forward Characteristics

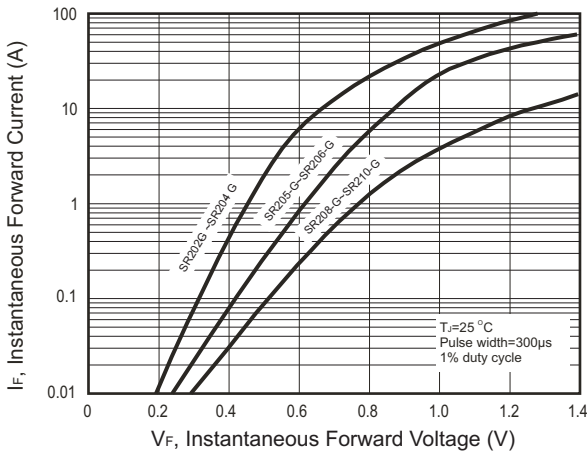


Fig.4 Typical Reverse Characteristics

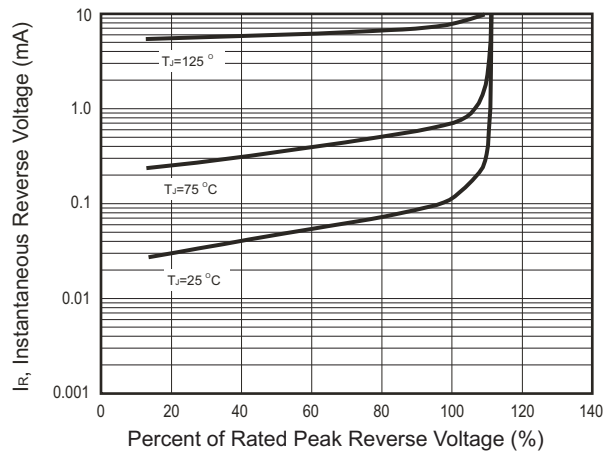


Fig.5 Typical Junction Capacitance

