

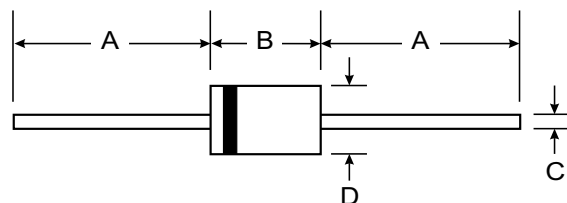
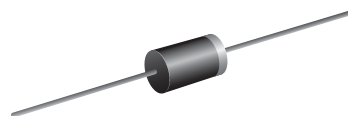
**VOLTAGE RANGE: 150 - 200V**  
**CURRENT: 2.0 A**

### Features

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

### Mechanical Data

- Case: DO-15, 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



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SR2150	SR2200	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	150	200	Volts
Maximum RMS voltage	V <sub>RMS</sub>	105	140	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	150	200	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	I <sub(av)< sub=""></sub(av)<>	2.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0		Amps
Maximum instantaneous forward voltage at 2.0A	V <sub>F</sub>	0.85	0.95	Volts
Maximum DC reverse current <small>T<sub>A</sub>=25°C</small> at rated DC blocking voltage <small>T<sub>A</sub>=100°C</small>	I <sub>R</sub>	0.2		mA
		2.0		
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	80		pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	88		°C/W
Operating junction temperature range	T <sub>J</sub>	-65 to +150		°C
Storage temperature range	T <sub>STG</sub>	-65 to +150		°C

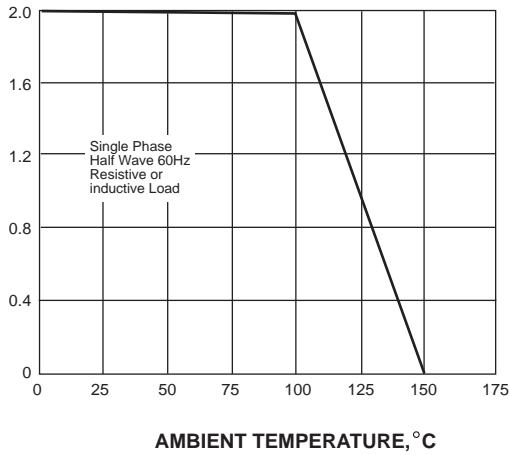
**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

## RATINGS AND CHARACTERISTIC CURVES SR2150 THRU SR2200

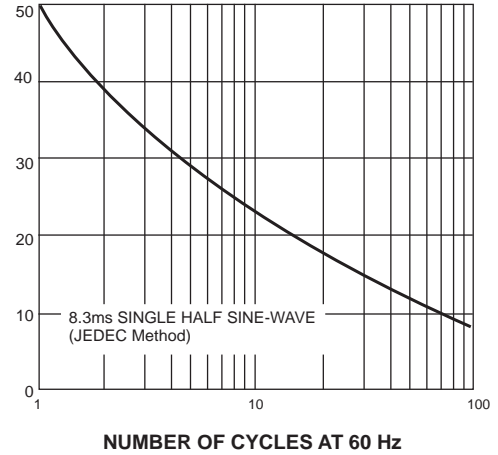
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



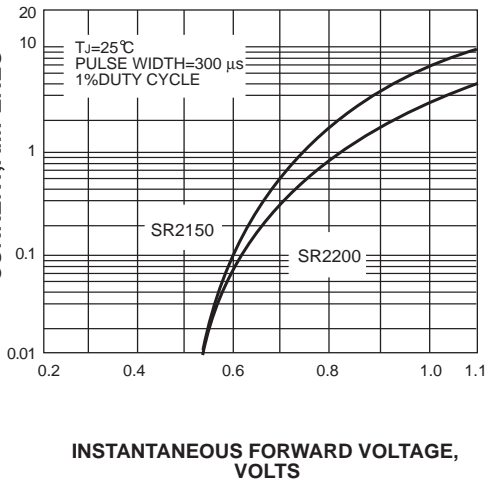
PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



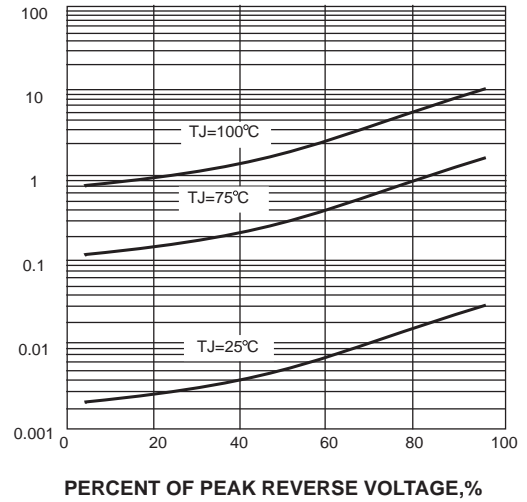
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



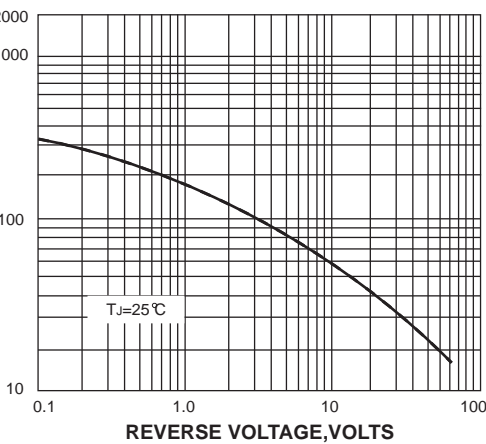
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



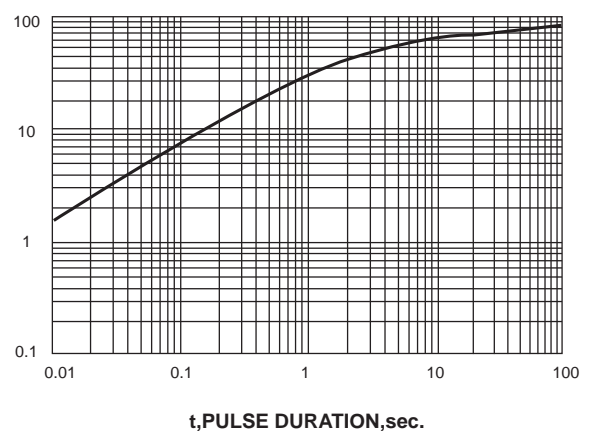
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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