



SCHOTTKY BARRIER RECTIFIER

SR5150 THRU SR5200

VOLTAGE RANGE

150 to 200 Volts

CURRENT

5.0 Ampere

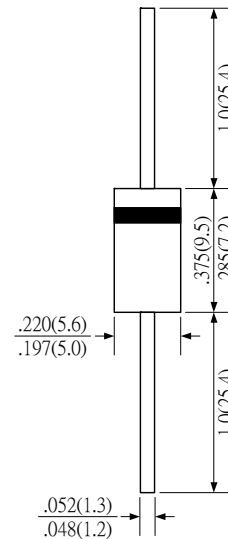
☐ Features

- 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 : 1.10 grams

DO-27



☐ Maximum ratings and Electrical characteristics

TYPE		SR5150	SR5200	UNIT
Maximum Recurrent Peak Reverse Voltage		150	200	V
Maximum RMS Voltage		105	140	V
Maximum DC Blocking Voltage		150	200	V
Maximum Average Forward Rectified Current		5.0		A
Peak Forward SSurge Current, 8.3ms single half sine-wave superimposed on rated load		100		A
Maximum Instantaneous Forward Voltage at 5.0A		0.90	0.95	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta = 25°C	0.01		mA
	Ta = 100°C	10		
Typical Junction Capacitance		380		pF
Typical Thermal Resistance RθJA		10		°C/W
Operating Temperature Range TJ		-50 - 125		°C
Storage Temperature Range TSTG		-65 - 150		°C

Note: Pulse Test : 380μs pulse width, 2% duty cycle



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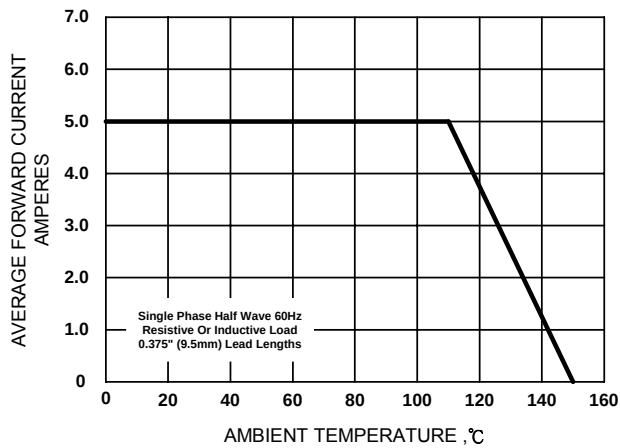


Figure 1. Forward Current Derating Curve

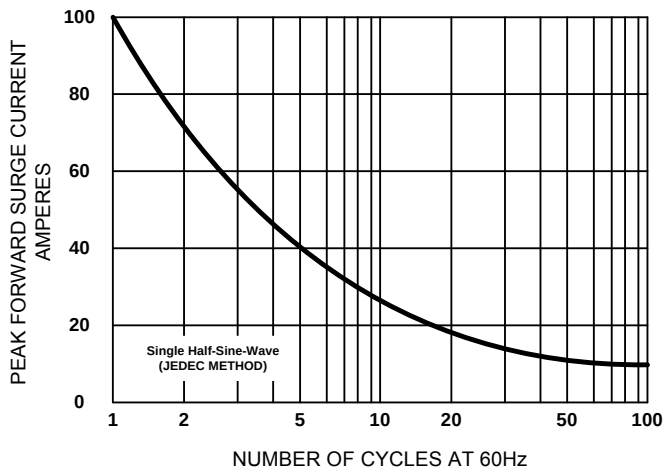


Figure 2. Maximum Non-repetitive Surge Current

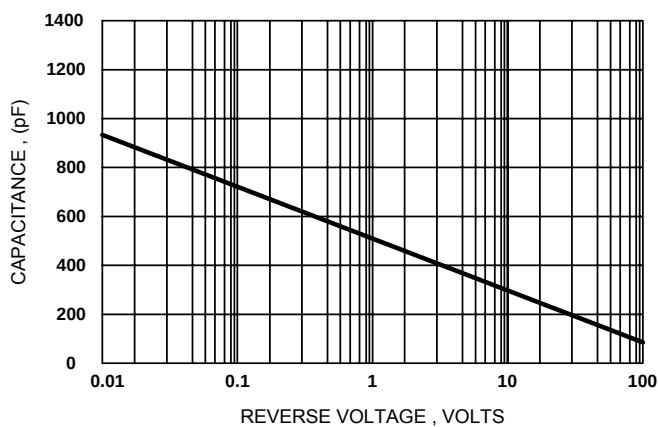


Figure 3. Typical Junction Capacitance

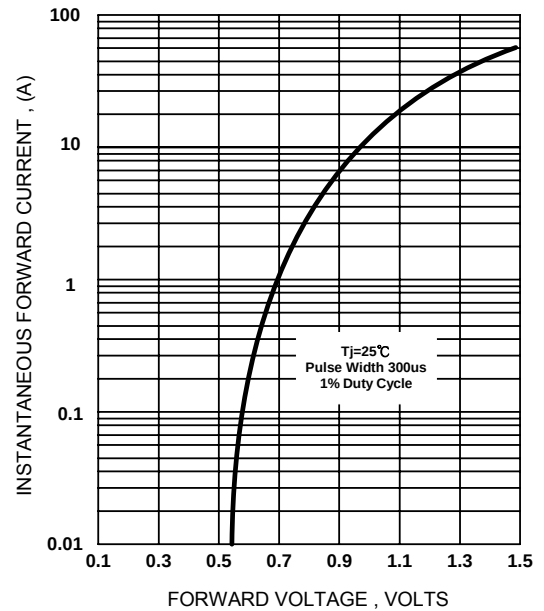


Figure 4. Typical Forward Characteristics

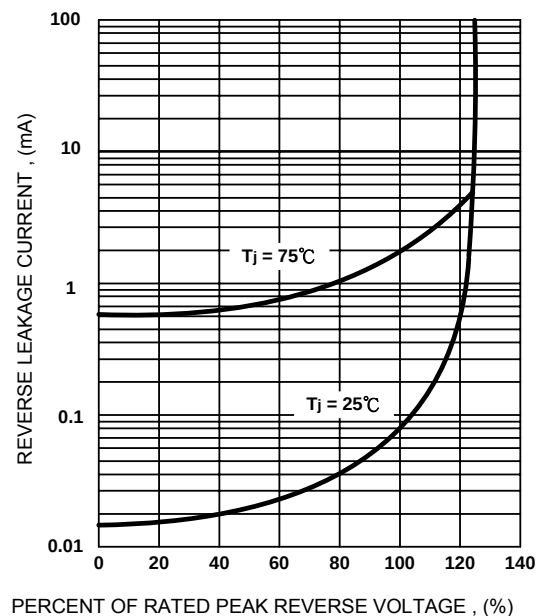


Figure 5. Typical Reverse Characteristics