SR520 THRU SR5200

5.0 AMP SCHOTTKY BARRIER RECTIFIERS

FEATURES

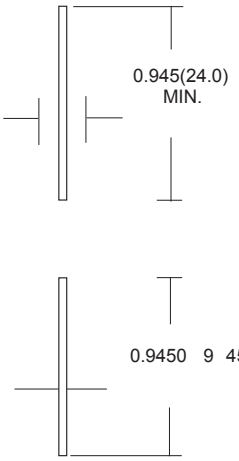
* Low forward voltage drop
* High current capability
* High reliability
* High surge current capability
* Epitaxial construction

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 1.00 grams

VOLTAGE RANGE
20 to 200 Volts
CURRENT
5.0 Amperes

DO-27



0.9450 9 45 □ □ 19 0. 9 4 445

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	
Maximum Recurrent Peak Reverse Voltage	
Maximum RMS Voltage	
Maximum DC Blocking Voltage	
Maximum Average Forward Rectified Current See Fig. 1	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	
Maximum Instantaneous Forward Voltage at 5.0A	
Maximum DC Reverse Current Ta=25 C at Rated DC Blocking Voltage Ta=100 C	
Typical Junction Capacitance (Note1)	
Typical Thermal Resistance RθJA (Note 2)	

NOTES:

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

2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SR520 THRU SR5200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

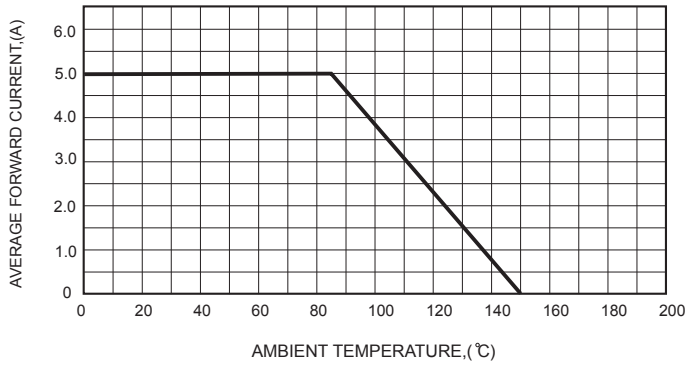


FIG.2-TYPICAL FORWARD CHARACTERISTICS

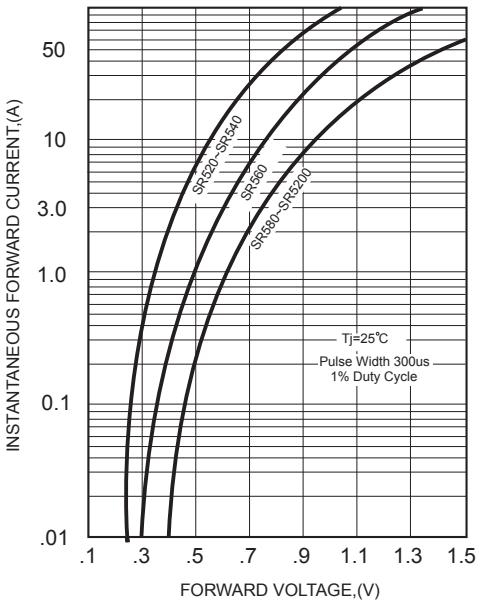


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

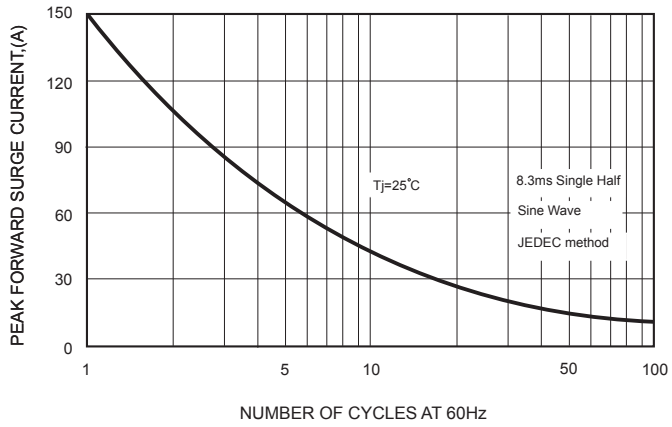


FIG.4-TYPICAL JUNCTION CAPACITANCE

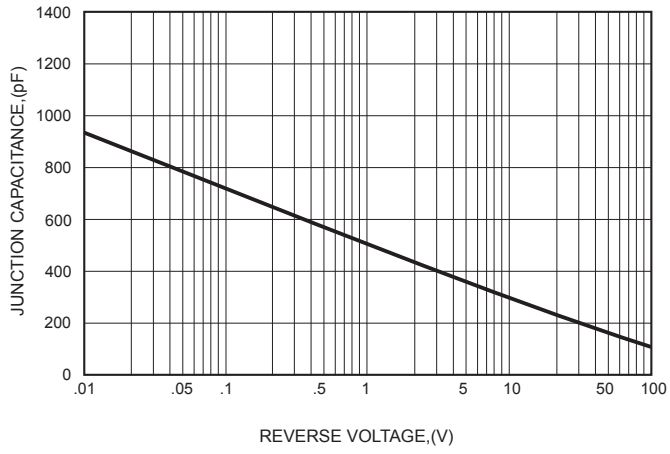


FIG.5 - TYPICAL REVERSE CHARACTERISTICS