

# SR320 THRU SR3200



3.0 AMP SCHOTTKY BARRIER RECTIFIERS



## FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability
- \* Epitaxial construction
- \* Lead Free Finish/RoHS Compliant

## MECHANICAL DATA

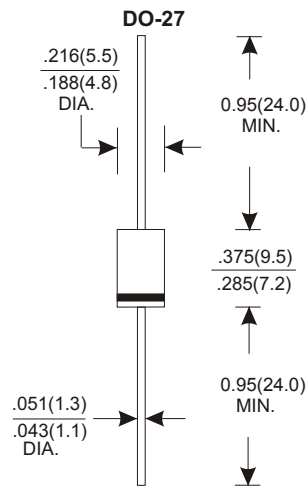
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 1.04 grams

## VOLTAGE RANGE

20 to 200 Volts

## CURRENT

3.0 Ampere



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SR320	SR 330	SR 340	SR 360	SR 380	SR 3100	SR 3150	SR 3200	UNITS	
Maximum Recurrent Peak Reverse Voltage	20	30	40	60	80	100	150	200	V	
Maximum RMS Voltage	14	21	28	42	56	70	105	140	V	
Maximum DC Blocking Voltage	20	30	40	60	80	100	150	200	V	
Maximum Average Forward Rectified Current	3.0								A	
See Fig. 1										
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	80								A	
Maximum Instantaneous Forward Voltage at 3.0A	0.55		0.70	0.85		0.90	0.95		V	
Maximum DC Reverse Current Ta=25°C	500								uA	
at Rated DC Blocking Voltage Ta=100°C	30								mA	
Typical Junction Capacitance (Note1)	250								pF	
Typical Thermal Resistance R JA (Note 2)	20								°C/W	
Operating Temperature Range Tj	-65 — +125			-65 — +150						°C
Storage Temperature Range TSTG	-65 — +150								°C	

### 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 (SR 320 THRU SR 3200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

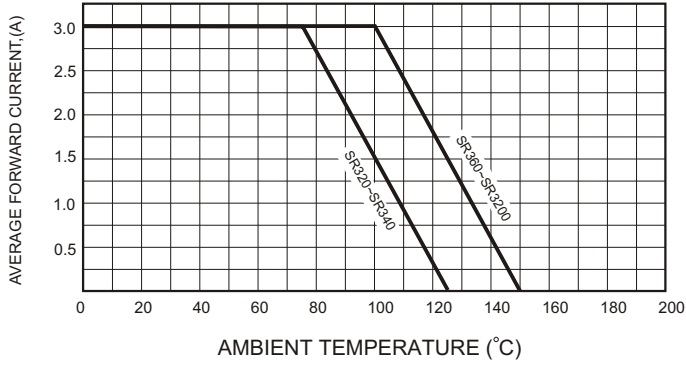


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

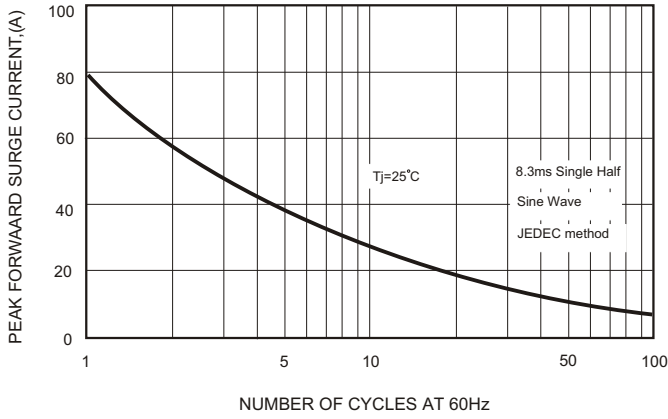


FIG.4-TYPICAL JUNCTION CAPACITANCE

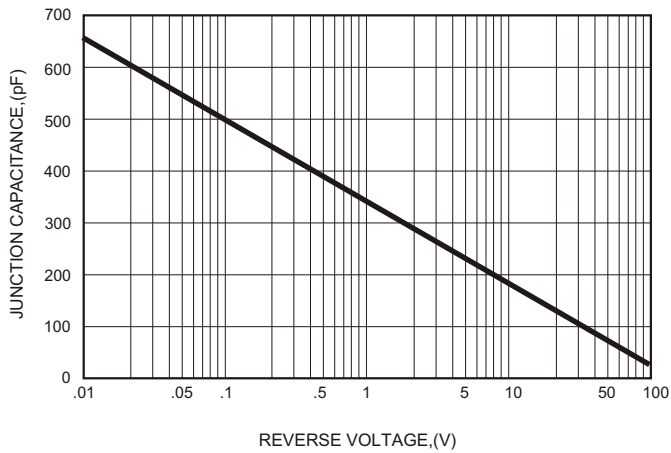


FIG.2-TYPICAL FORWARD CHARACTERISTICS

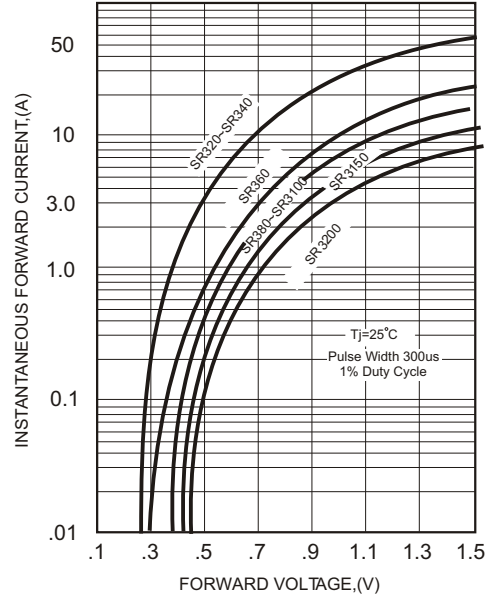


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

