

# SR5100H THRU SR5200H

**FMS**

## 5.0 AMP SCHOTTKY BARRIER RECTIFIERS



### FEATURES

- \* High voltage
- \* Low leakage current
- \* High reliability
- \* Epitaxial construction

### MECHANICAL DATA

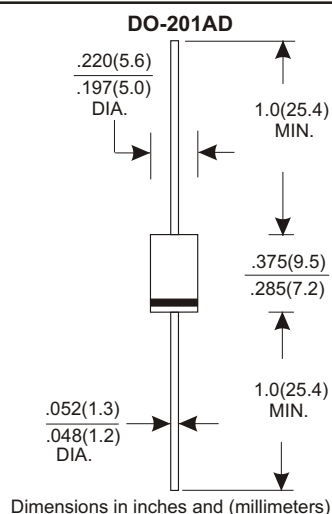
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 1.10 grams

### VOLTAGE RANGE

100 to 200 Volts

### CURRENT

5.0 Amperes



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SR5100H	SR5150H	SR5200H	UNITS
Maximum Recurrent Peak Reverse Voltage	100	150	200	V
Maximum RMS Voltage	70	105	140	V
Maximum DC Blocking Voltage	100	150	200	V
Maximum Average Forward Rectified Current	5.0			A
See Fig. 1	5.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	60			A
Maximum Instantaneous Forward Voltage at 5.0A	1.05			V
Maximum DC Reverse Current Ta=25°C	0.01			mA
at Rated DC Blocking Voltage Ta=125°C	10			mA
Typical Junction Capacitance (Note1)	380			pF
Typical Thermal Resistance R JA (Note 2)	10			°C/W
Operating Temperature Range Tj	-50 — +125			°C
Storage Temperature Range Tstg	-50 — +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 (SR5100H THRU SR5200H)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

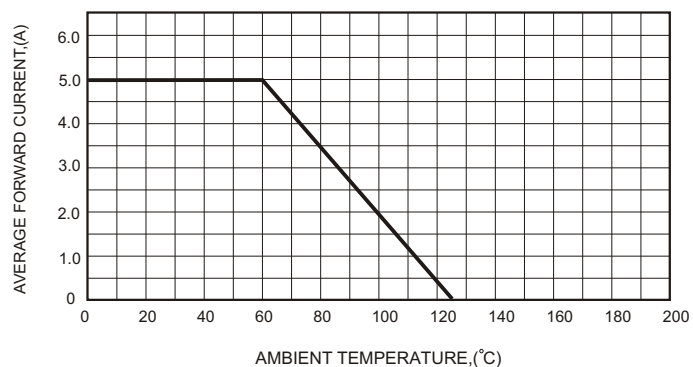


FIG.2-TYPICAL FORWARD CHARACTERISTICS

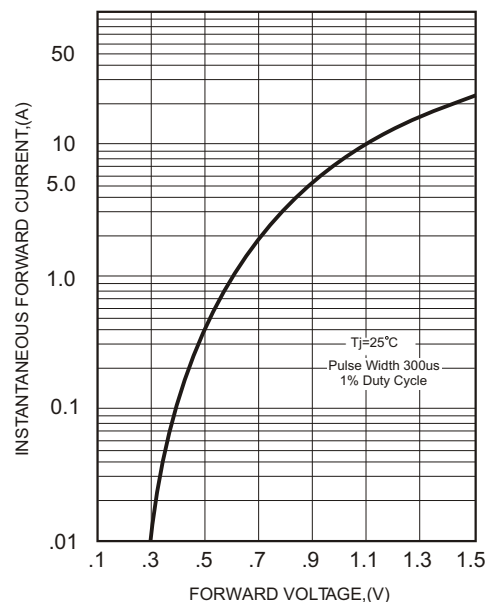


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

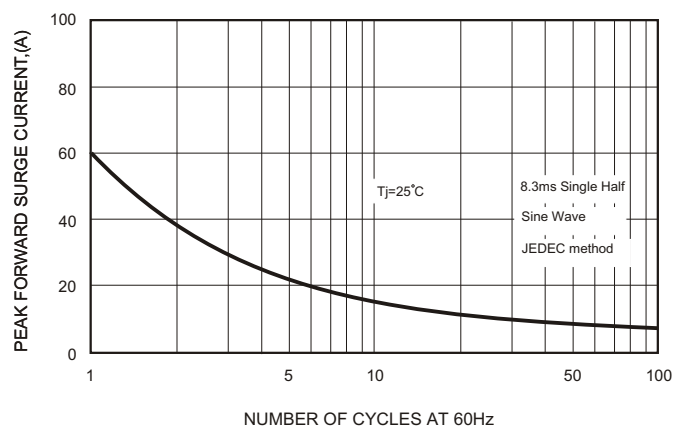


FIG.4-TYPICAL JUNCTION CAPACITANCE

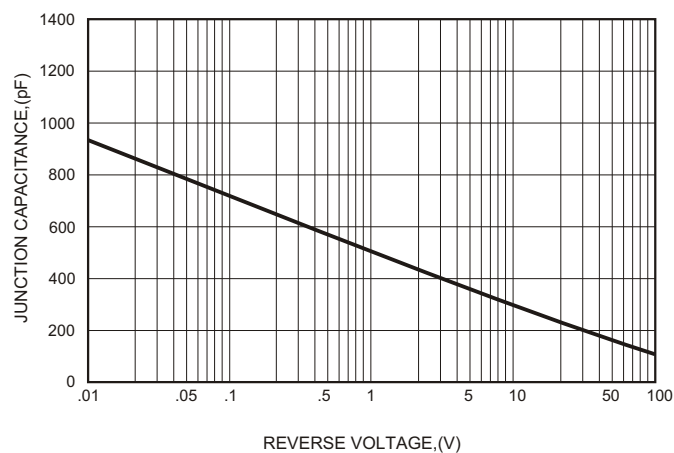


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

