

SR5100H THRU SR5200H

FMS

5.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

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

MECHANICAL DATA

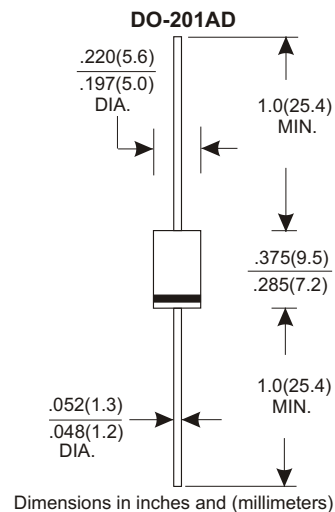
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.10 grams

VOLTAGE RANGE

100 to 200 Volts

CURRENT

5.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unieess otherwies 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				
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

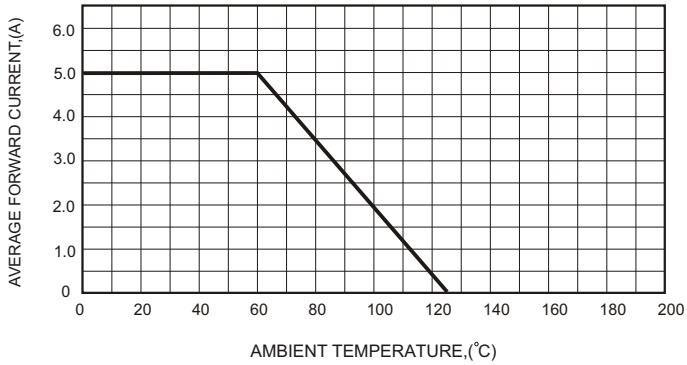


FIG.2-TYPICAL FORWARD CHARACTERISTICS

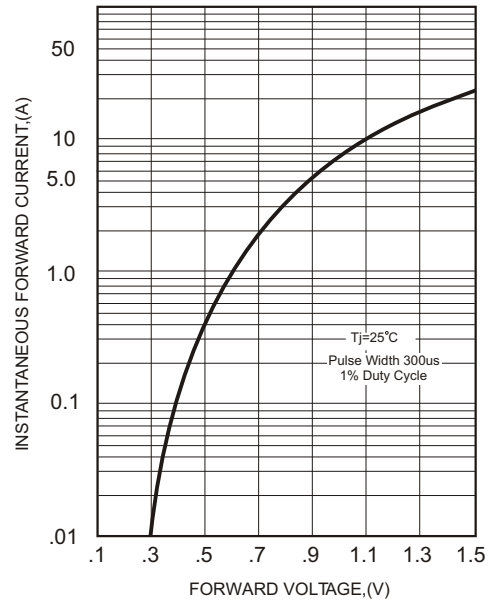


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

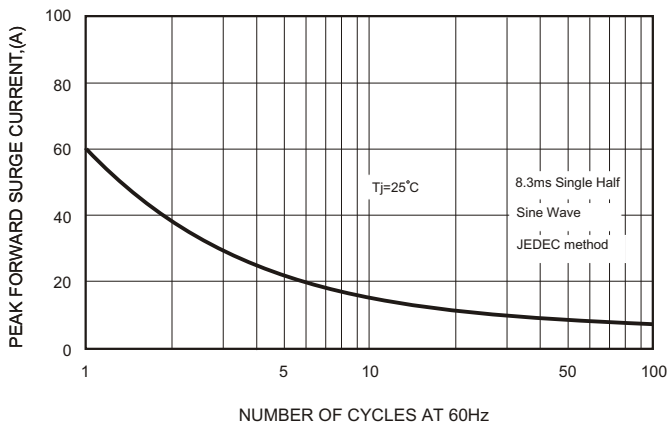


FIG.4-TYPICAL JUNCTION CAPACITANCE

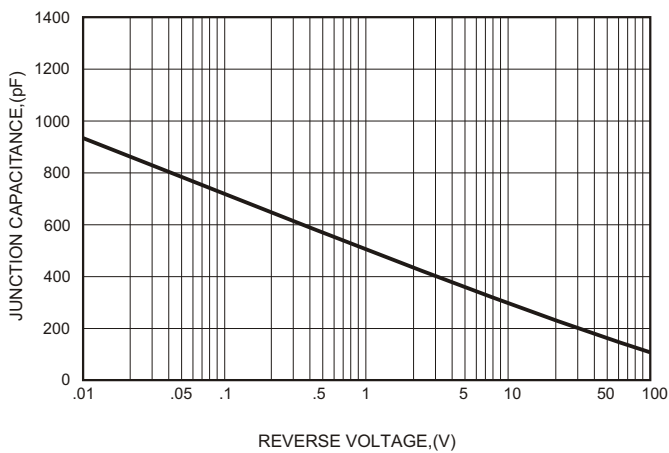


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

