Elektronische Bauelemente

SR220S THRU SR2100S

VOLTAGE 20V ~ 100V

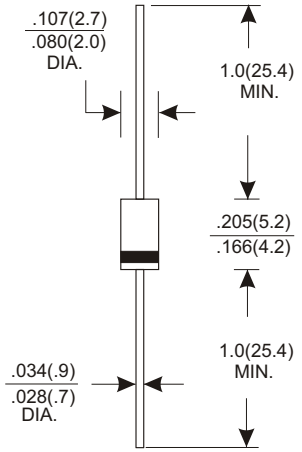
2.0 AMP Schottky Barrier Rectifiers

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free



DO-41



Dimensions in inches and (millimeters)

●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 Lead, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.34 grams

●MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SR220S	SR230S	SR240S	SR250S	SR260S	SR280S	SR2100S	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Working Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current, See Fig. 1	2.0							A
Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage at 2.0A	0.50			0.65		0.83		V
Maximum DC Reverse Current Ta=25 ℃ / At Rated DC Blocking Voltage Ta=100 ℃	0.2 / 20							mA
Typical Junction Capacitance (Note1)	170							pF
Typical Thermal Resistance RθJA (Note 2)	35							℃ / W
Operating Temperature Range T_J	-50 ~ +150							℃
Storage Temperature Range T_{STG}	-65 ~ +170							℃

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.

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●RATING AND CHARACTERISTIC CURVES (SR220S THRU SR2100S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

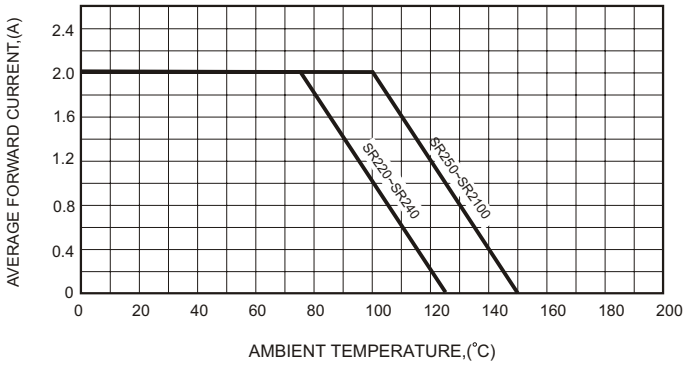


FIG.2-TYPICAL FORWARD CHARACTERISTICS

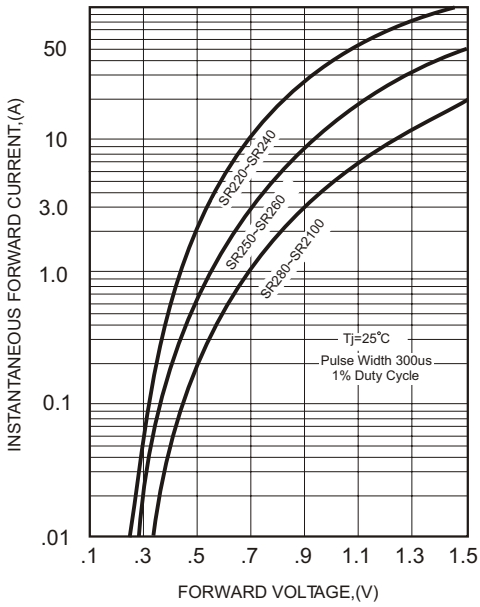


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

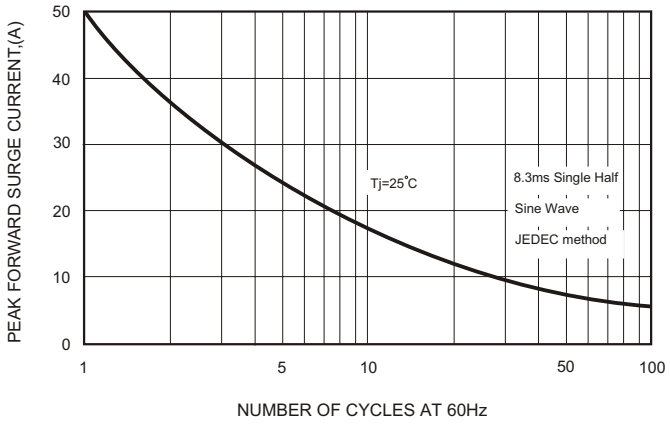


FIG.4-TYPICAL JUNCTION CAPACITANCE

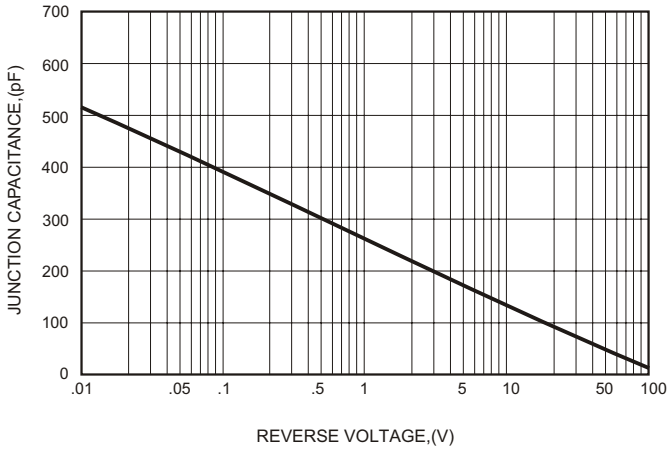


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

