

SR120~SR1100

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 100 Volt **CURRENT** 1 Ampere

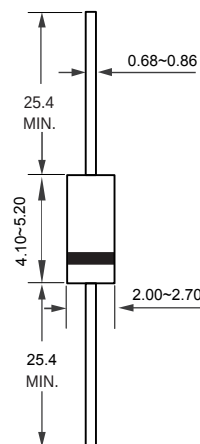
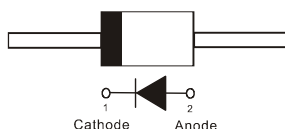
DO-41 Unit:mm

FEATURES

- Schottky Barrier Chip
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications.

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SR120	SR140	SR160	SR180	SR1100	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0					A
Peak Forward surge current 8.3ms single half-sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	30					A
Max Instantaneous Forward Voltage at 1.0 A	V _F	0.50		0.70	0.85		V
Maximum Reverse Current at Rated DCBlocking Voltage T _j = 2 5 °C T _j = 1 0 0 °C	I _R	0.5					mA
		10					
Typical Junction Capacitance (Note 1)	C _J	110		80			pF
Typical Thermal Resistance (Note 2)	R _{θJA}	50					°C/W
Operating Junction Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

NOTE :

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. P.C.B. mounted with 0.2x0.2" (5x5 mm) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

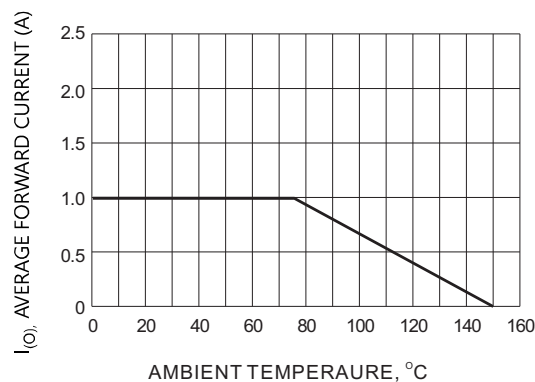


Fig. 1 Forward Current Derating Curve

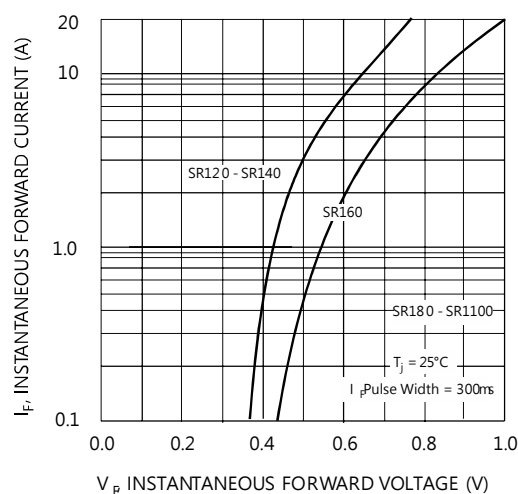


Fig. 2 Typical Forward Characteristics

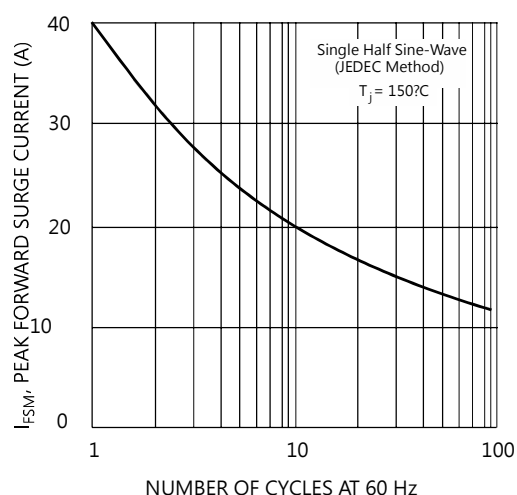


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

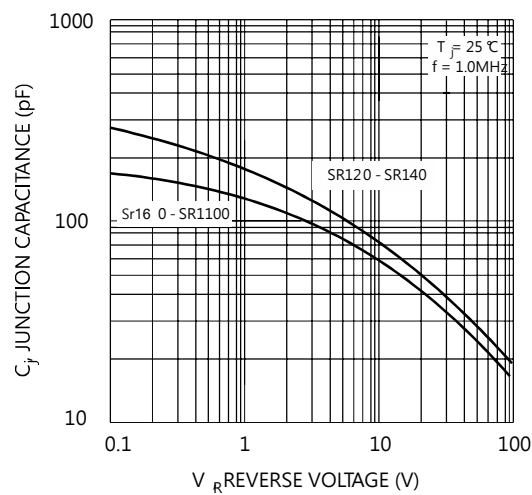


Fig. 4 Typical Junction Capacitance

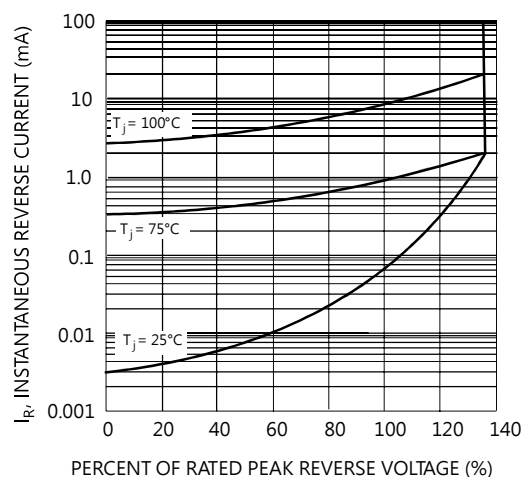


Fig. 5 Typical Reverse Characteristics

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Ordering Information

- Packing information

SR120~SR1100	Packing Quantity
Tape&Reel	13 Inch; 5kpcs/Reel
Ammo Packing	5kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box