DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SR150 THRU SR1100

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 50 to 100 Volts *CURRENT - 1.0 Ampere*

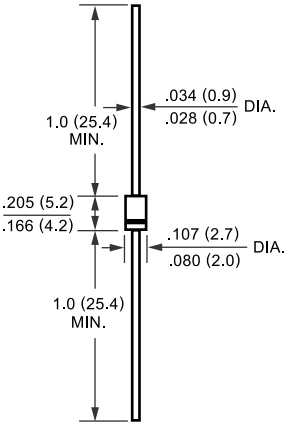
FEATURES

* Low switching noise
* Low forward voltage drop
* High current capability
* High switching capability
* High surge capabitity
* High reliability

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: MIL-STD-202E, Method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.33 gram

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SYMBOL	SR150	SR160	SR180	SR1100	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	60	80	100	Volts
Maximum RMS Voltage		V_{RMS}	35	42	56	70	Volts
Maximum DC Blocking Voltage		V_{DC}	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length		I_O	1.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	40				Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		V_F	.70		.85		Volts
Maximum DC Reverse Current	@T_A = 25°C	I_R	1.0				mAmps
at Rated DC Blocking Voltage	@T_A = 100°C		10				mAmps
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	50				°C/W
Typical Junction Capacitance (Note 2)		C_J	110				pF
Operating Temperature Range		T_J	-50 to + 125				°C
Storage Temperature Range		T_{STG}	-65 to + 150				°C

NOTES : 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.375"(9.5mm) Lead Length.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

NEXT BACK EXIT

RATING AND CHARACTERISTIC CURVES (SR150 THRU SR1100)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

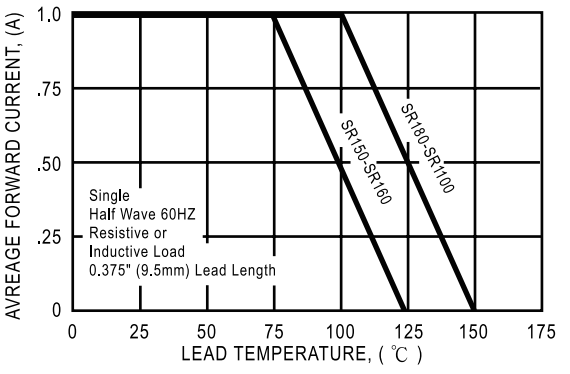


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

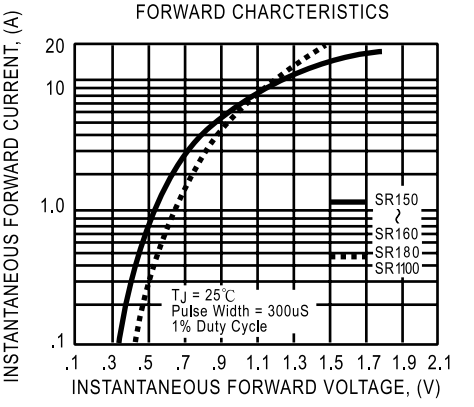


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

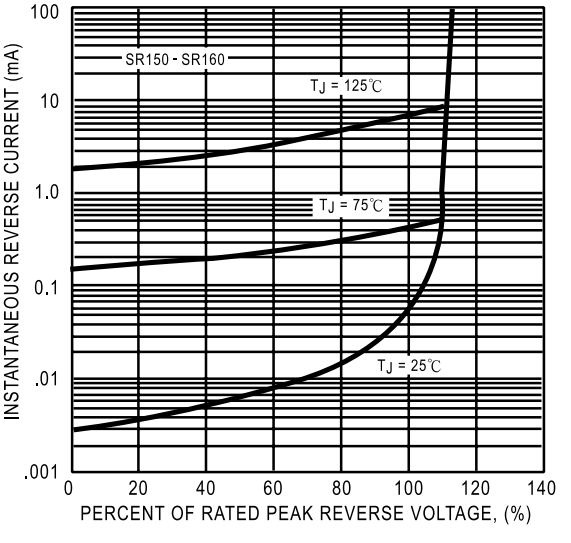


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

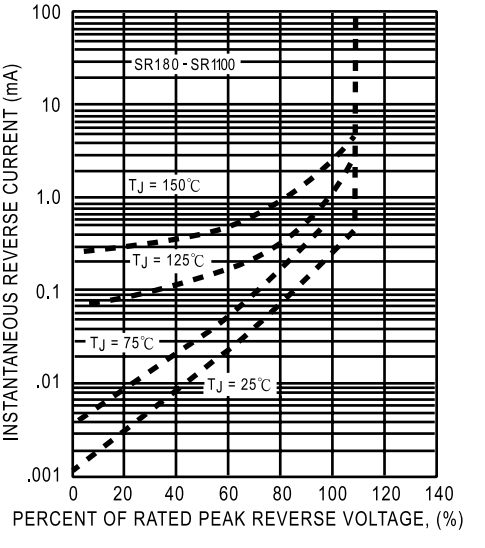


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

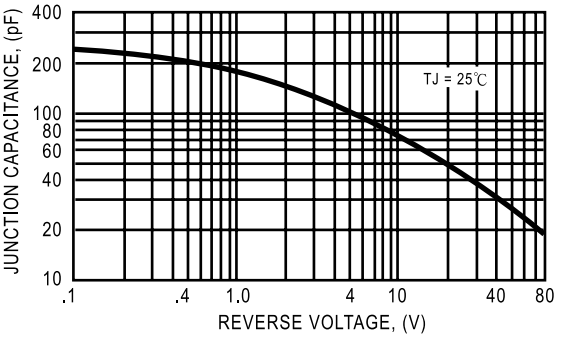


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT