DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SR220 THRU SR2100

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts *CURRENT - 2.0 Ampere*

FEATURES

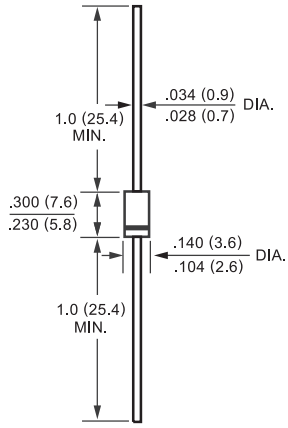
* Low switching noise
* Low forward voltage drop
* High current capability
* High switching capability
* High surge capabitity
* High reliability

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: 0.4 gram



DO-15



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	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length		I_O	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	50							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC		V_F	.55			.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		20							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 (SR220 THRU SR2100)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

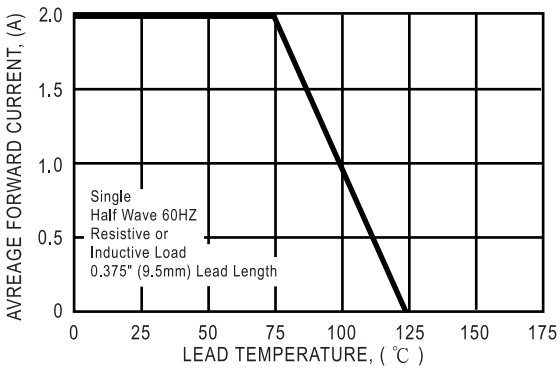


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

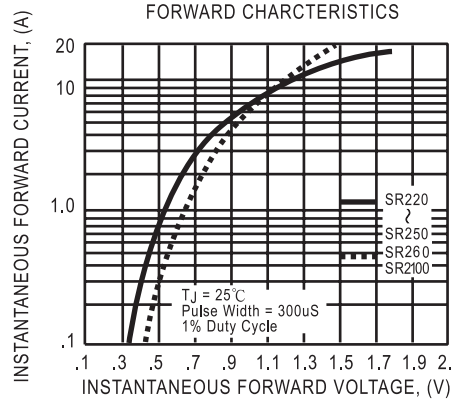


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

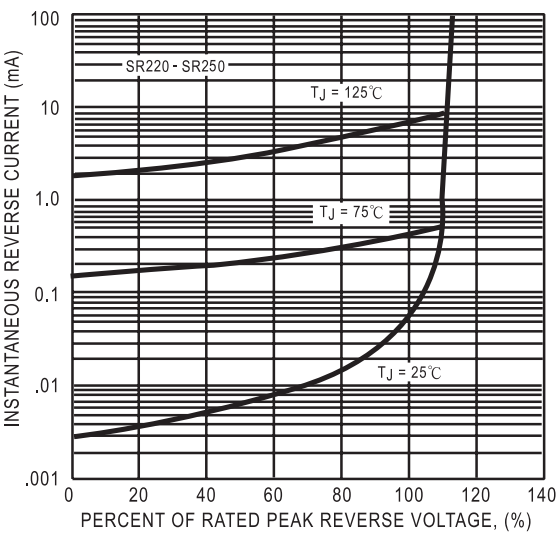


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

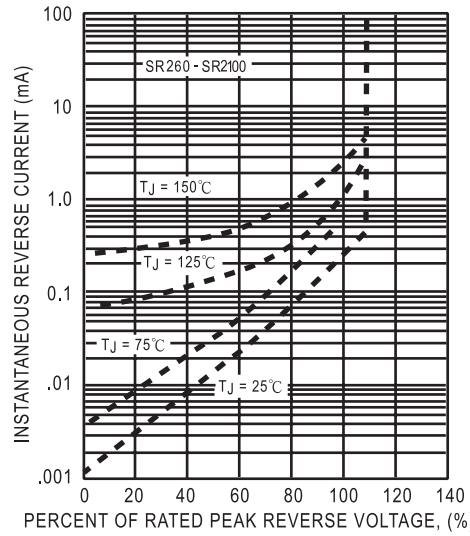


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

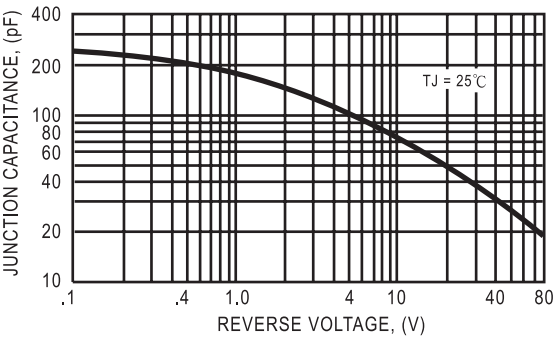


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

