



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SR150
THRU
SR1100

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER DIODES
VOLTAGE RANGE - 50 to 100 Volts **CURRENT - 1.0 Ampere**

FEATURES

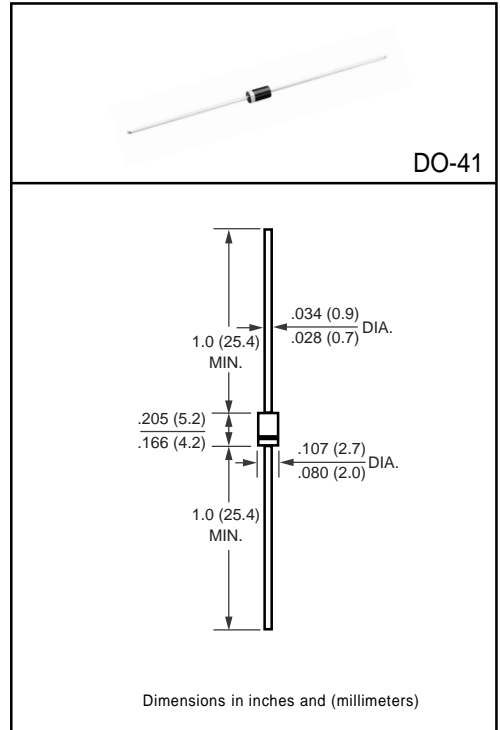
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capability
- * High reliability

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, 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_D	1.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30				Amps
Maximum Instantaneous Forward Voltage at $I_F=1.0A$	V_F	.70		.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_A = 25^\circ C$	1.0				mAmps
	@ $T_A = 100^\circ C$	100				
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	50				$^\circ C/W$
Typical Junction Capacitance (Note 2)	C_J	110				pF
Operating Temperature Range	T_J	-50 to +125				$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +150				$^\circ C$

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.

RATING AND CHARACTERISTIC CURVES (SR150 THRU SR1100)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

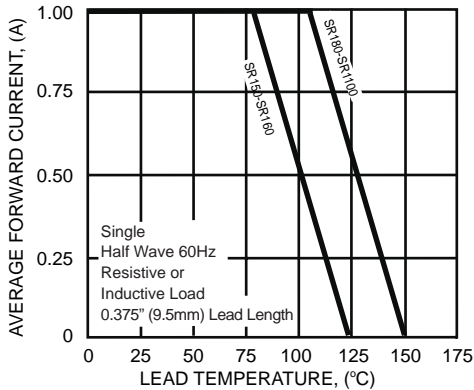


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

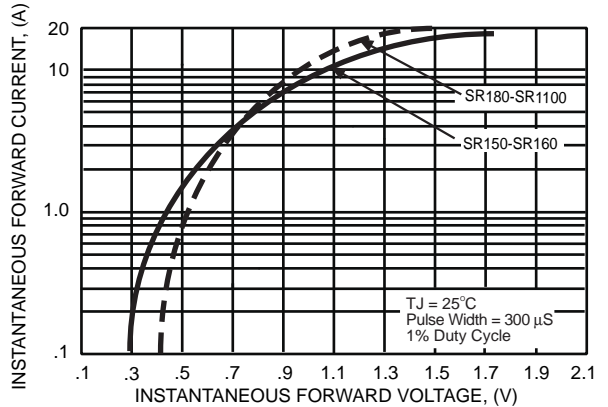


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

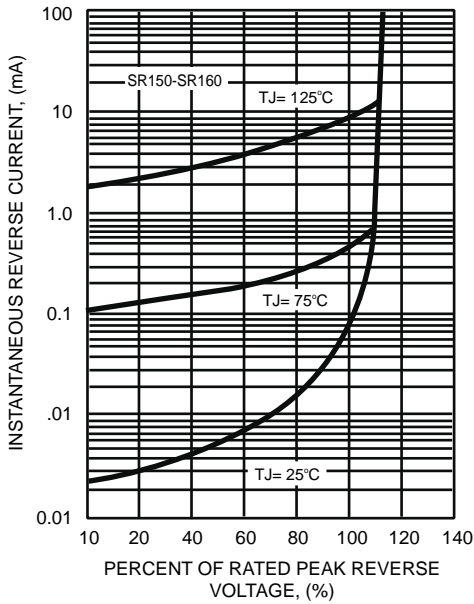


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

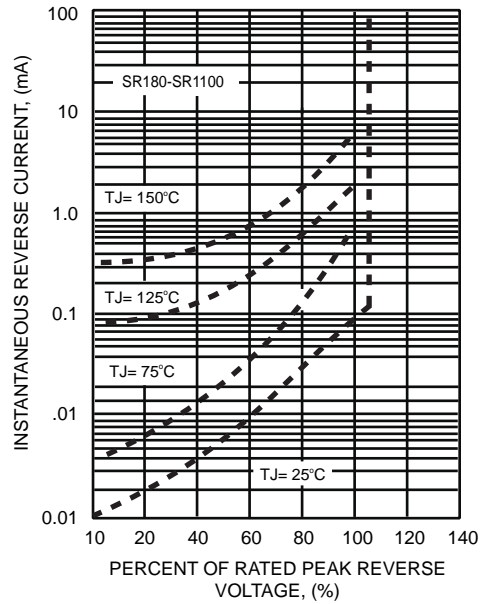


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

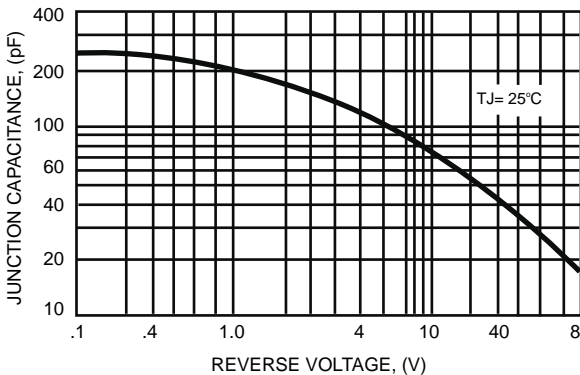
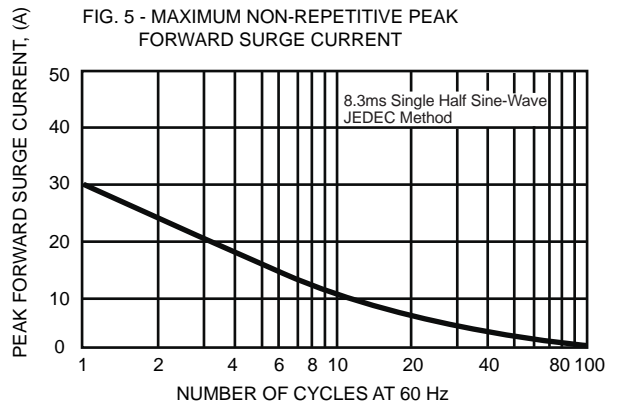


FIG. 5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



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