

SR150 THRU SR1100

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 50 to 60 Volts

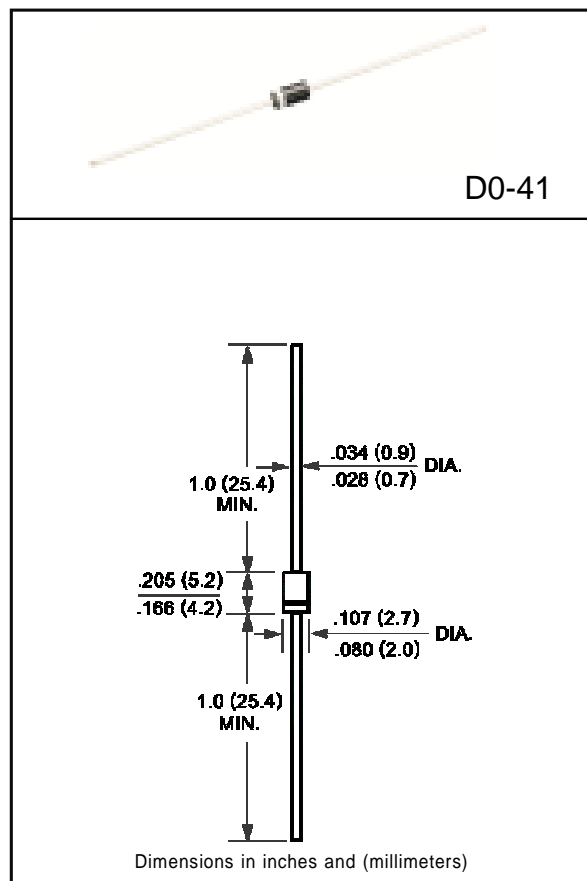
CURRENT - 1.0 Ampere

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, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	SR150	SR160	SR180	SR1100	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	60	80	100	Volts
Maximum RMS Voltage	VRMS	35	42	56	70	Volts
Maximum DC Blocking Voltage	VDC	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	IO	1.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40				Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	0.70		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	1.0				mAmps
	@TA = 100°C	10				mAmps
Typical Thermal Resistance (Note 1)	RθJA	50				°C/W
Typical Junction Capacitance (Note 2)	CJ	11				pF
Operating Temperature Range	TJ	-50 to + 125				°C
Storage Temperature Range	TSTG	-65 to + 150				°C

NOTES : 1. Thermal Resistance (Junction to Ambient), .24in₂ (6.0mm₂) copper pads to each terminal.
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

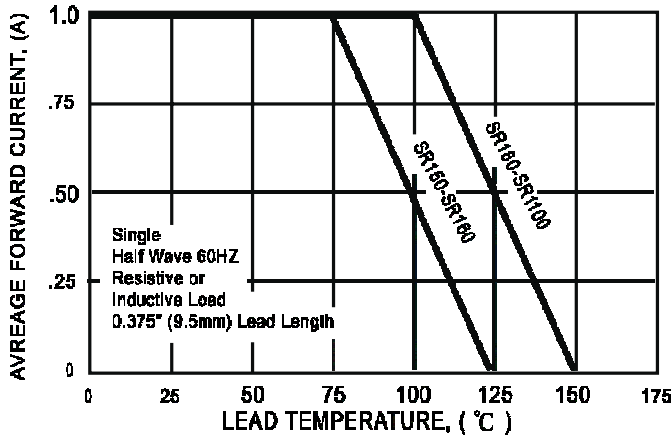


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

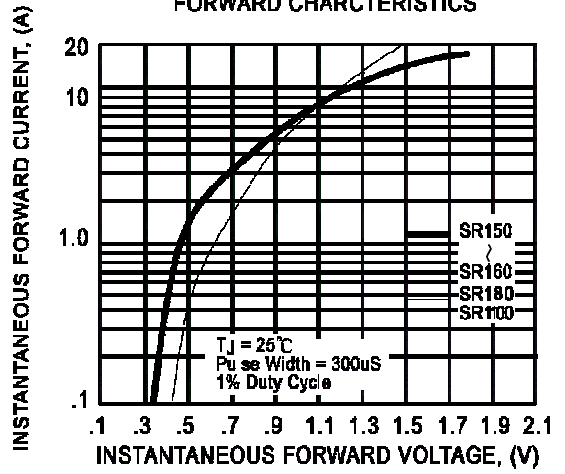


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

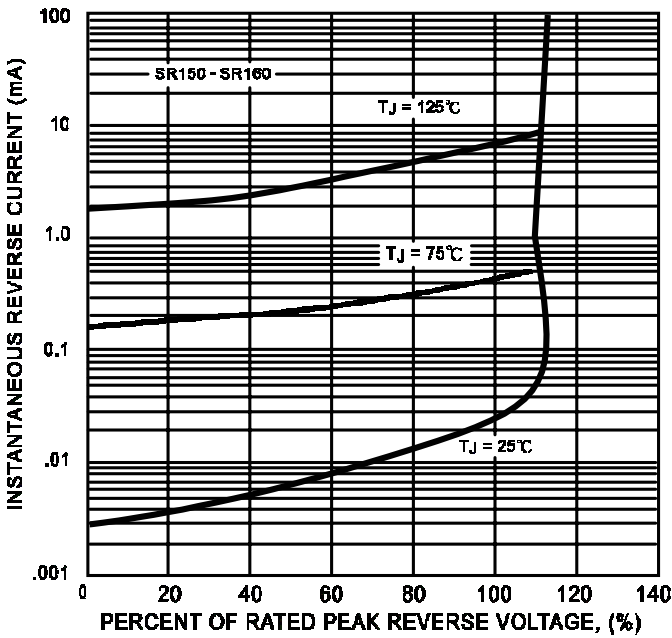


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

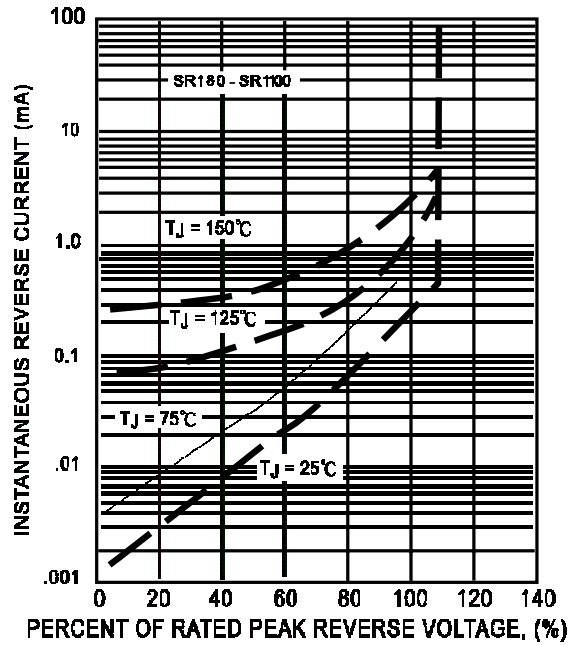


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

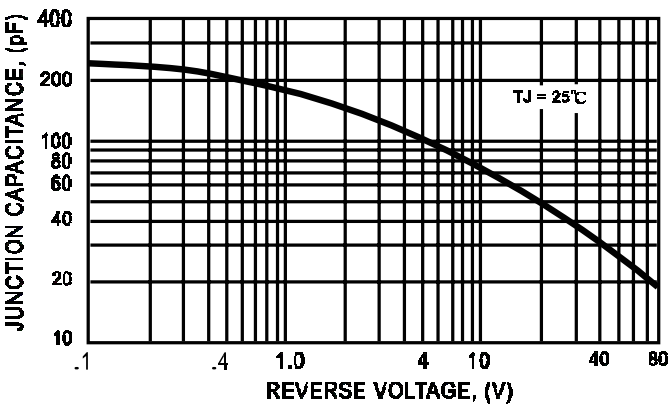


FIG. 5 - MAXIMUM NON REPETITIVE FORWARD SURGE CURRENT

