



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SR1620
THRU
SR1660

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 60 Volts

CURRENT - 16 Amperes

FEATURES

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

MECHANICAL DATA

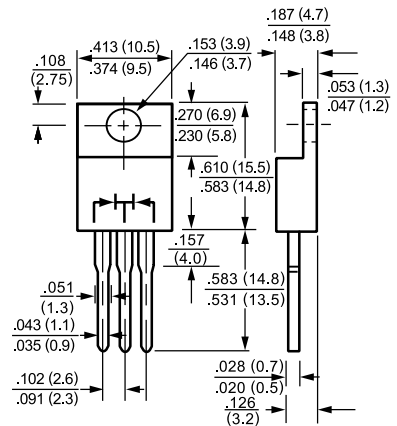
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 2.24 grams

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%.



TO-220



Dimensions in inches and (millimeters)

	SYMBOL	SR1620	SR1630	SR1640	SR1650	SR1660	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	IO	16					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					Amps
Maximum Instantaneous Forward Voltage at 8.0A DC	VF	.65			.75		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Tc = 25°C	5					mAmps
	@Tc = 100°C	100					mAmps
Typical Thermal Resistance (Note 1)	RθJC	3.5					°C/W
Typical Junction Capacitance (Note 2)	CJ	700					pF
Operating Temperature Range	TJ	-65 to + 150					°C
Storage Temperature Range	TSTG	-65 to + 150					°C

- NOTES : 1. Thermal Resistance Junction to Case per leg.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. Suffix "A"= Common Anode.

RATING AND CHARACTERISTIC CURVES (SR1620 THRU SR1660)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

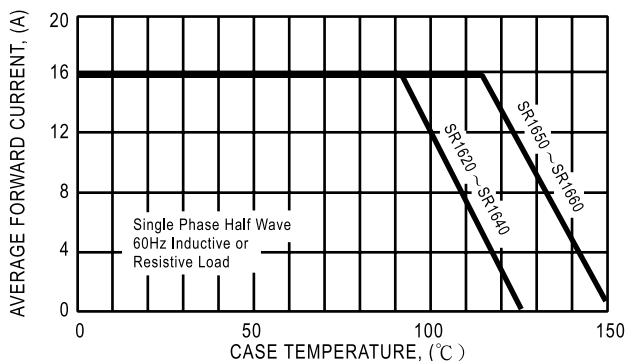


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

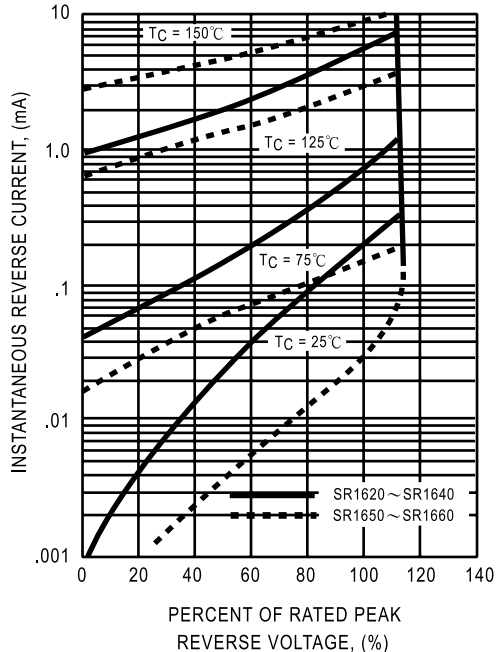


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

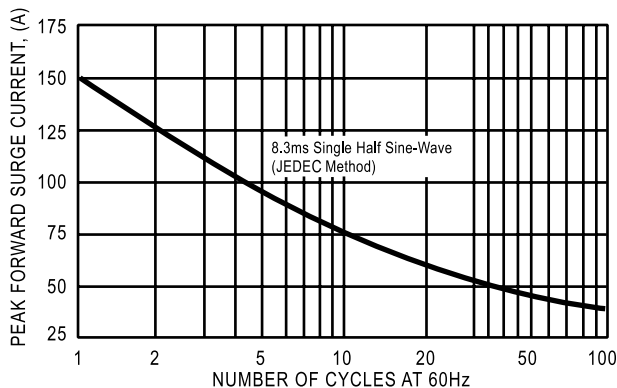


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

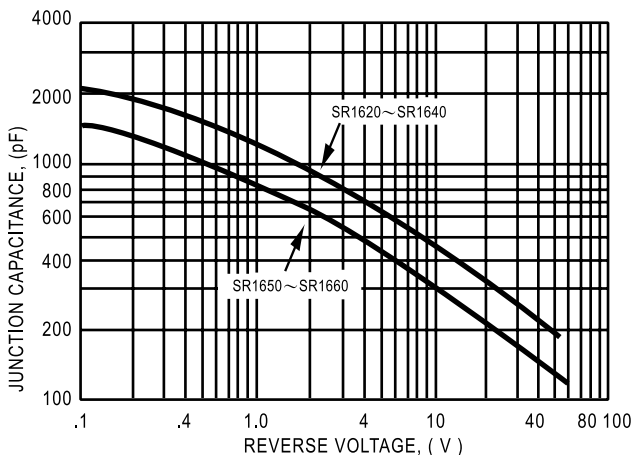


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

