



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 2790-0314 FAX: 2790-0206



RECTIFIER SPECIALISTS

SR520
THRU
SR560

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 60 Volts

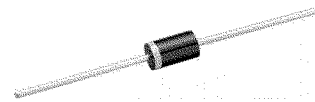
CURRENT - 5.0 Amperes

FEATURES

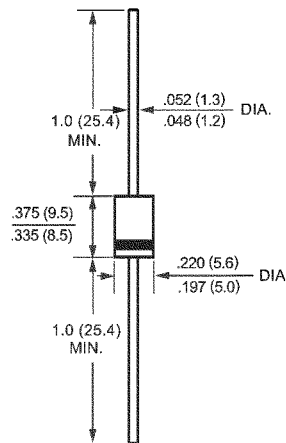
- * High reliability
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability

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: 1.18 grams



DO-27



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	SR520	SR530	SR540	SR550	SR560	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 .375*(9.5mm) lead length	IO	5.0					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 5.0A DC	VF	.55			.70		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	5.0					mAmps
	@TA = 100°C	50					
Typical Thermal Resistance (Note 1)	RθJA	18					°C/W
Typical Junction Capacitance (Note 2)	CJ	550			400		pF
Operating Temperature Range	TJ	-65 to + 150					°C
Storage Temperature Range	TSTG	-65 to + 150					°C

NOTES : 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5*(12.7mm) Lead Length.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.



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RATING AND CHARACTERISTIC CURVES (SR520 THRU SR560)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

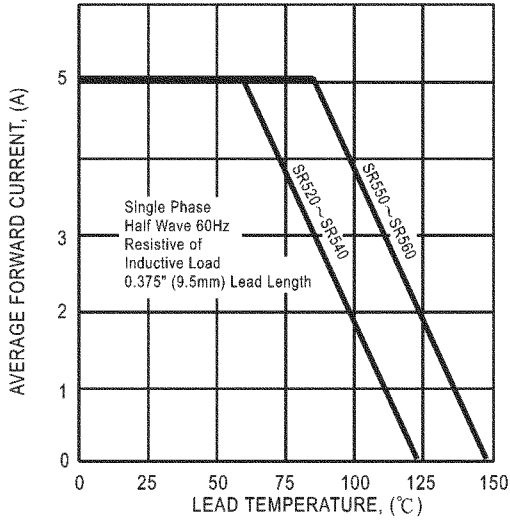


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

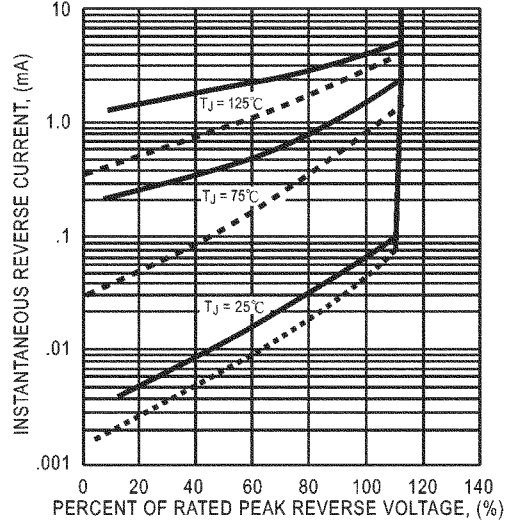


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

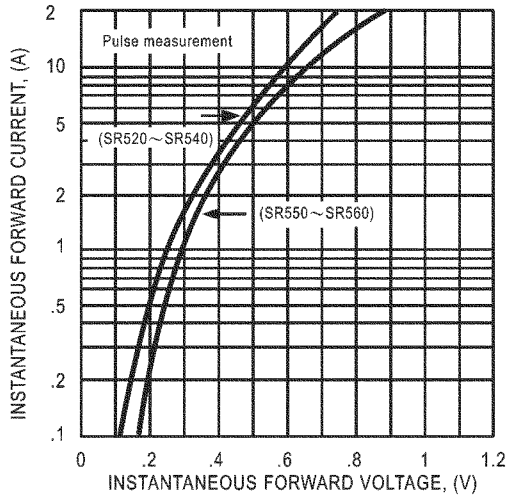


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

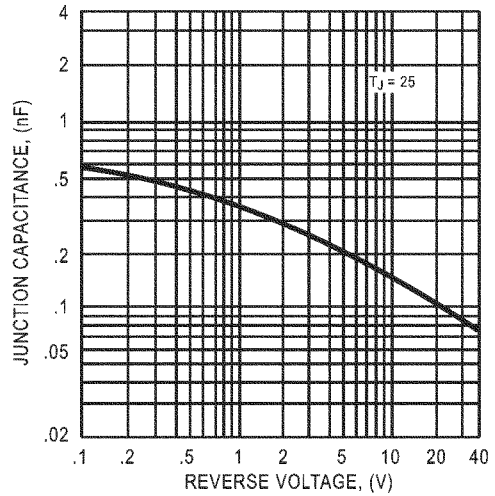


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

