



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

SR120
THRU
SR1A0

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 1.0 Ampere

FEATURES

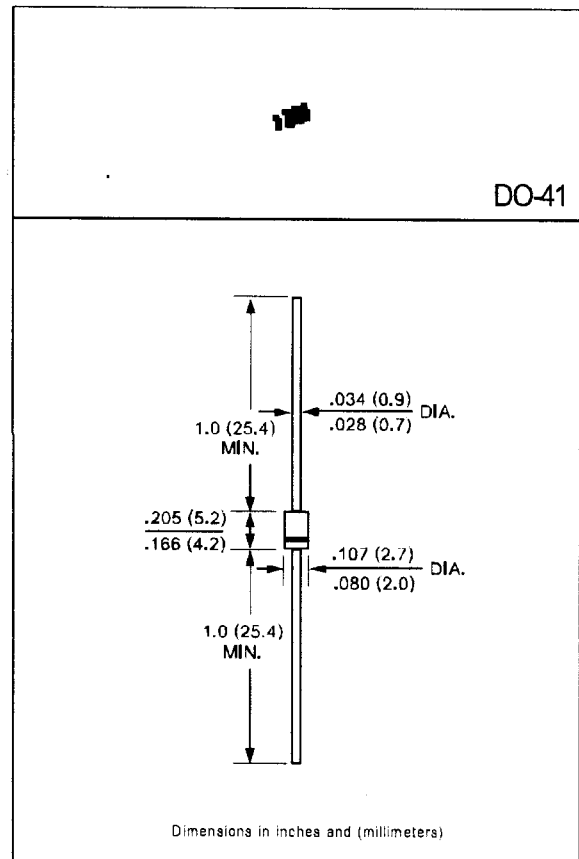
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High reliability
- * High surge capability

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: 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	SR120	SR130	SR140	SR150	SR160	SR180	SR1A0	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	57	71	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) lead length	IO	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40.0							Amps
Maximum Instantaneous Forward Voltage at 1.0A (Note 1)	VF	.55		.70		0.75	0.83	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	0.5							mAmps
	@TA = 100°C	10							mAmps
Typical Thermal Resistance (Note 1)	RθJA	50							°C/W
Typical Junction Capacitance (Note 2)	CJ	110							pF
Operating Temperature Range	TJ	-65 to + 150							°C
Storage Temperature Range	TSTG	-65 to + 150							°C

NOTES : 1. Pulse test: 300 μs pulse width, 1% duty cycle
2. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.375"(9.5 mm) Lead Length.
3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.



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RATING AND CHARACTERISTIC CURVES (SR120 THRU SR1A0)

FIG. 1-FORWARD CURRENT DERATING CURVE

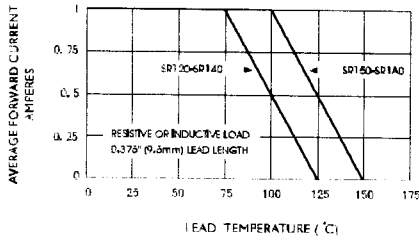


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

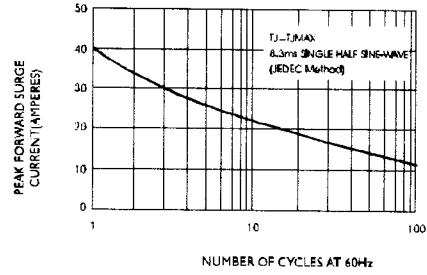


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

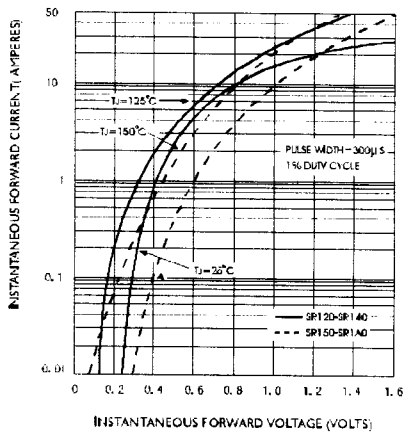


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

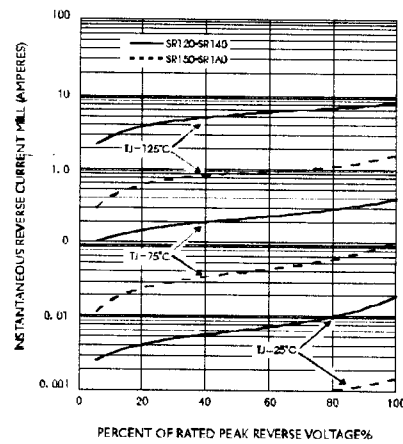


FIG. 5-TYPICAL JUNCTION CAPACITANCE

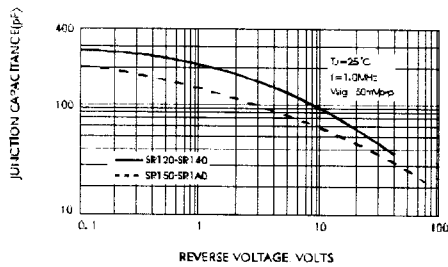


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

