SR120S THUR SR1100S 1.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

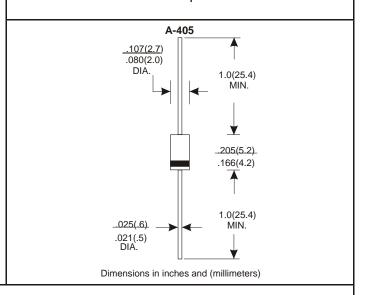
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any * Weight: 0.22 grams

VOLTAGE RANGE 20 to 100 Volts CURRENT

1.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		SR120S	SR130S	SR140S	SR150S	SR160S	SR180S	SR1100S	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	80	100	V
Maximum RMS Voltage		14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage		20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Cu	rrent								
See Fig. 1		1.0							Α
Peak Forward Surge Current, 8.3 ms sin	gle half sine-wave								
superimposed on rated load (JEDEC method)			30						
Maximum Instantaneous Forward Voltage at 1.0A			0.55 0.70			.70	70 0.85		V
Maximum DC Reverse Current	Ta=25 C		1.0						
at Rated DC Blocking Voltage	Ta=100 C	10					mA		
Typical Junction Capacitance (Note1)		110							pF
Typical Thermal Resistance R _q JA (Note 2)			50						
Operating Temperature Range T _J		-(-65 —+125 -65 —+150						С
Storage Temperature Range Tsтc			-65—+150						

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

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RATING AND CHARACTERISTIC CURVES (SR120S THRU SR1100S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

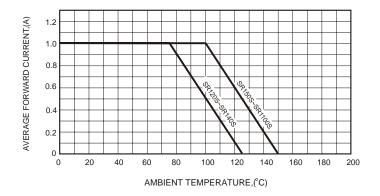


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

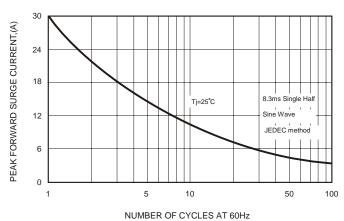


FIG.4-TYPICAL JUNCTION CAPACITANCE

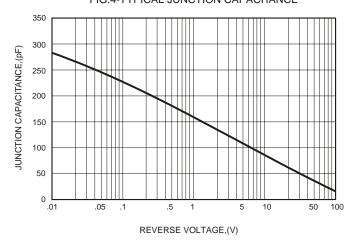


FIG.2-TYPICAL FORWARD

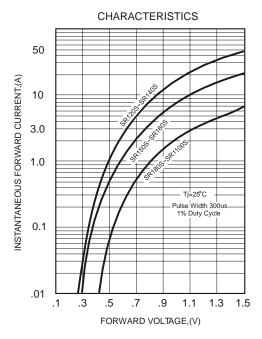


FIG.5 - TYPICAL REVERSE

