SR120S THRU SR1100S



1.0 AMP SCHOTTKY BARRIER RECTIFIERS



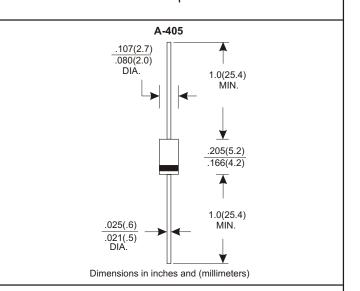
FEATURES

- * 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

VOLTAGE RANGE 20 to 100 Volts CURRENT 1.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

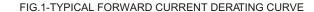
Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 Current							•	
.375"(9.5mm) Lead Length at TL=100°C	1.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)	30						Α	
Maximum Instantaneous Forward Voltage at 1.0A		0.55			0.70		0.85	
Maximum DC Reverse Current Ta=25°C	0.5							mA
at Rated DC Blocking Voltage Ta=100°C	10							mA
Typical Junction Capacitance (Note1)		110						pF
Typical Thermal Resistance RθJL (Note 2)		15						°C/W
Operating Temperature Range TJ	-65 — +150							°C
Storage Temperature Range Tsтс	-65—+150							°C

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead Vertical PC Board Mounting 0.375"(9.5mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SR120S THRU SR1100S)



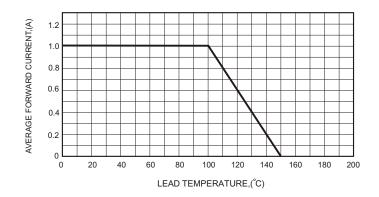


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

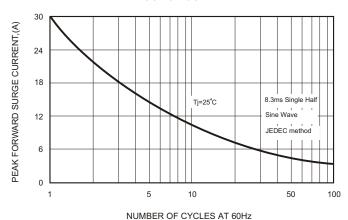


FIG.4-TYPICAL JUNCTION CAPACITANCE

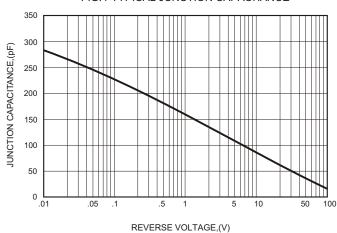


FIG.2-TYPICAL FORWARD

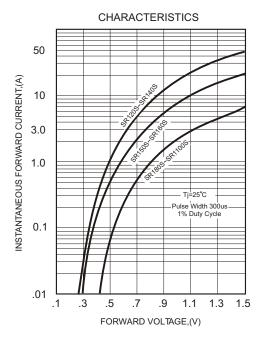


FIG.5 - TYPICAL REVERSE

