BL <u>GALAXY ELECTRICAL</u>

SCHOTTKY BARRIER RECTIFIERS

FEATURES

- $\diamondsuit \mathsf{M}\!\mathsf{e}\mathsf{tal}\mathsf{-}\!\mathsf{Semiconductor}$ junction with guard ring
- \bigcirc Epitaxial construction
- \bigcirc Low forward voltage drop, low switching losses
- \diamondsuit High surge capability
- ◇ For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- \diamondsuit The plastic material carries U/L $\,$ recognition 94V-0 $\,$

MECHANICAL DATA

- \bigcirc Case:JEDEC A-405,molded plastic
- MIL- STD-202,Method 208
- \diamondsuit Polarity: Color band denotes cathode
- \bigcirc Weight: 0.008 ounces, 0.23 grams \bigcirc Mounting position: Any

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 by 20%.

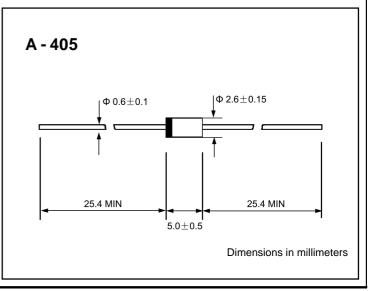
		SR120S	SR130S	SR140S	SR150S	SR160S	SR180S	SR1A0S	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum average forw ard rectified current 9.5mm lead length, (see fig.1)	I _{F(AV)}	1.0							А
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load $@T_J=125^{\circ}C$	I _{FSM}	40.0							A
Maximum instantaneous forw ard voltage @ 1.0A(Note 1)	V _F	0.55			0.7		0.85		V
Maximum reverse current $@T_A = 25^{\circ}C$ at rated DC blocking voltage $@T_A = 100^{\circ}C$	I _R	0.5 10.0							mA
Typical junction capacitance (Note2)	CJ	110							pF
Typical thermal resistance (Note3)	R_{\thetaJA}	50							℃/W
Operating junction temperature range	TJ	- 55 + 125			- 55 + 150				°C
Storage temperature range	T _{STG}	- 55 +150							°C

NOTE: 1. Pulse test : 300 μ s pulse width, 1% duty cycle.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

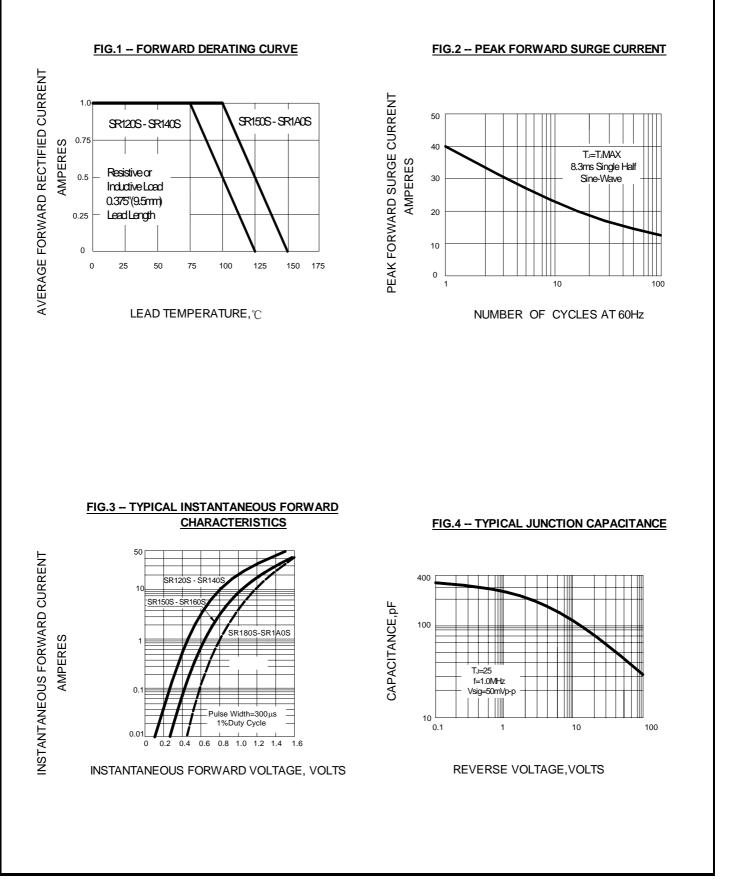
3. Thermal resistance junction to ambient

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VOLTAGE RANGE: 20 --- 100 V



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