

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _L =110°C	1.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	30							А
Maximum Instantaneous Forward Voltage @ 1.0A	1.1							V
Maximum DC Reverse Current @ T _A =25°C	5							uA
at Rated DC Blocking Voltage @ T _A =125°C	50							uA
Maximum Reverse Recovery Time (Note 1)	1.8							uS
Typical Junction Capacitance (Note 2)	12							pF
Operating Temperature Range T _J	-55 to +150							°C
Storage Temperature Range TSTG	-55 to +150							°C

Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

2. Measured at 1 MHz and Applied V_R=4.0 Volts



RATINGS AND CHARACTERISTIC CURVES (SIA THRU SIM)

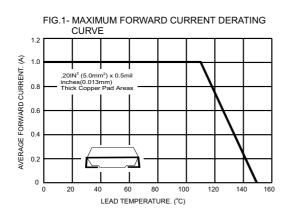
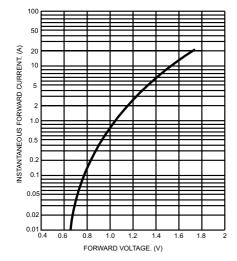


FIG.3- TYPICAL FORWARD CHARACTERISTICS



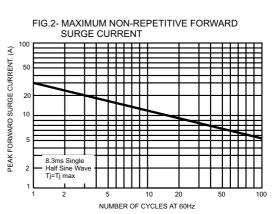


FIG.4- TYPICAL REVERSE CHARACTERISTICS

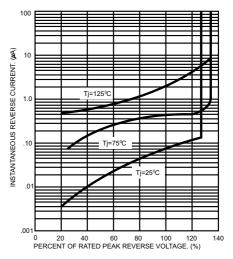


FIG.5- TYPICAL JUNCTION CAPACITANCE

