

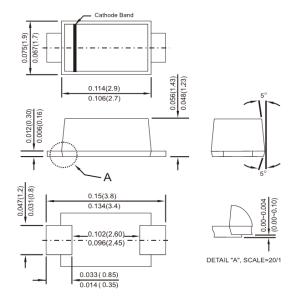
Features

- ♦ UL Recognized File # E-326243
- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- ♦ Low-Profile Package
- ♦ Ideal for automated placement
- ♦ Low power loss, high efficiency
- ↔ High temperature soldering: 260℃/10 seconds at terminals
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode
- ♦ Qualified as per AEC-Q101

Mechanical Data

- ♦ Case: Sub SMA plastic case
- ♦ Terminal: Pure tin plated, lead free
- ♦ Polarity: Color band denotes cathode
- ♦ Packaging: 8mm / 12mm tape per EIA STD RS-481
- ♦ Weight: 0.0196 grams
- Marking code refer to below specified

S1AL - S1ML 1.0AMP Surface Mount Rectifiers Sub SMA



Dimensions in inches and (millimeters)

	warking i	Marking Diagram				
	1XL	= Sp				
1XLGYM	G	= Gr				
	Υ	= Ye				
	Μ	= W0				

- Specific Device Code Green Compound Year
- = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ 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		S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML	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℃ @Ttp=75℃ 20ms Square pulse					1.0 1.5				A
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)		30							А
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A		1.1							V
Maximum DC Reverse Current at@ T $_A$ =25 °CRated DC Blocking Voltage@ T $_A$ =125 °C		5 50						uA uA	
Typical Junction Capacitance (Note 2)		9							pF
Typical Reverse Recovery Time (Note 3)		1.8							uS
Typical Thermal Resistance (Note 4)		25 30 85 85			-	^o C/W			
Operating Temperature Range		- 55 to + 175							°C
Storage Temperature Range		- 55 to + 175						°C	

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

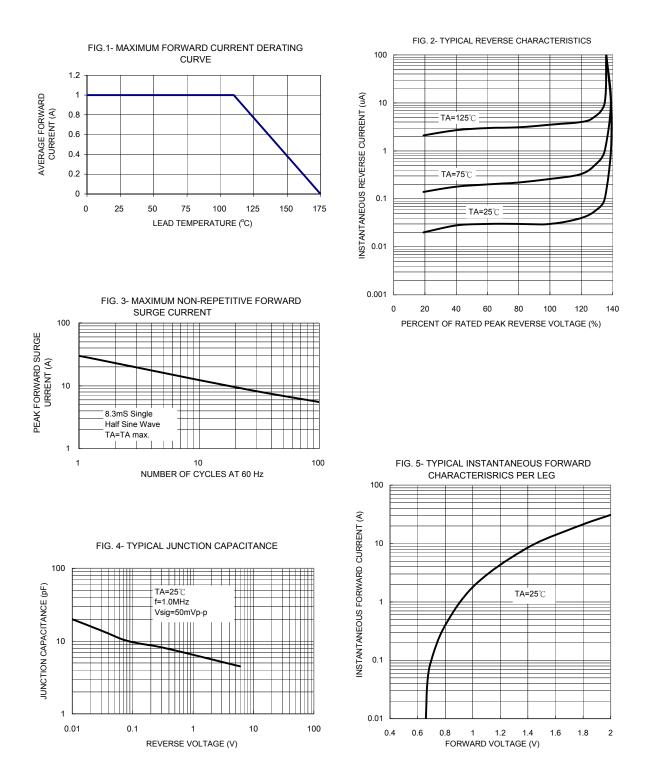
Note 2: Measured at 1 MHz and Applied VR=4.0 Volts.

Note 3: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Note 4: Measured on P.C. Board with 0.2" x 0.2" (5.0mm x 5.0mm) Copper Pad Areas.



RATINGS AND CHARACTERISTIC CURVES (S1AL THRU S1ML)



Version:I11