

S1AL THRU S1ML

1.0 AMP. Surface Mount Rectifiers



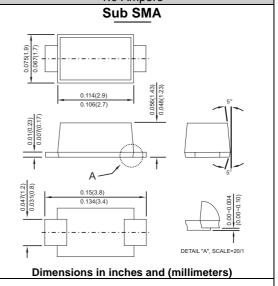
Voltage Range 50 to 1000 Volts Current 1.0 Ampere

Features

- ♦ For surface mounted application
- Glass passivated junction chip.
- ♦ Low-PROFILE PACKAGE
- ♦ Ideal for automated placement
- ♦ Low power loss, high efficiency
- High temperature soldering:
 260°C / 10 seconds at terminals

Mechanical Data

- ♦ Case: JEDEC DO-219-AB(SMF) plastic case
- ♦ Polarity: Color band denotes cathode end
- ♦ Packaging: 12mm tape per EIA STD RS-481
- ♦ Weight: approx. 15mg



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%

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Type Number	Symbol	S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Marking Code (Note 3)		1ALYM	1BLYM	1DLYM	1GLYM	1JLYM	1KLYM	1MLYM	
Maximum Average Forward Rectified Current @T _L =110°C	I _(AV)	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	1.1							V
Maximum DC Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =125°C	I _R	5 50							uA uA
Typical Thermal Resis tance (Note 2)	RθJL RθJA	25 30 85 85					c /w		
Typical Junction Capacitance (Note 1)	Cj	9						pF	
Operating Temperature Range	TJ	-55 to +150							C
Storage Temperature Range	Tstg	-55 to +150							C

Notes: 1. Measured at 1 MHz and Applied V_R=4.0 Volts

- 2. Measured on P.C. Board with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas.
- 3. 1ALYM: 1=1A, A=50V, L-Low Profile, Y-Year Code, M-Month Code.



