

S1AL - S1ML

1.0 AMP. Surface Mount Rectifiers Sub SMA



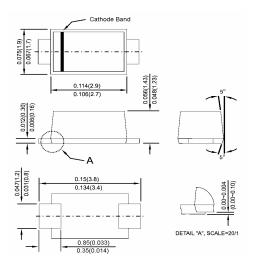


Features

- ♦ 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: 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: approx. 15mg
- Marking code refer to Note 1.



Dimensions in inches and (millimeters)

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	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 1)		1ALYM	1BLYM	1DLYM	1GLYM	1JLYM	1KLYM	1MLYM	
Maximum Average Forward Rectified Current @T _L =110 °C @Ttp =75 °C 20ms Square pulse	I _(AV)	1.0							Α
		1.5							
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 Junction Capacitance (Note 2)	Cj	9							pF
Maximum Reverse Recovery Time(Note 3)	T _{RR}	1.8							uS
Typical Thermal Resistance (Note 4)	$R_{ heta JA}$	25 30 85 85						°C /W	
Operating Temperature Range	TJ	-55 to +150						°C	
Storage Temperature Range	TSTG	-55 to +150						°C	

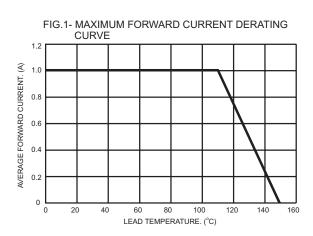
Notes: 1. 1ALYM: 1=1A, A=50V, L-Low Profile, Y-Year Code, M-Month Code

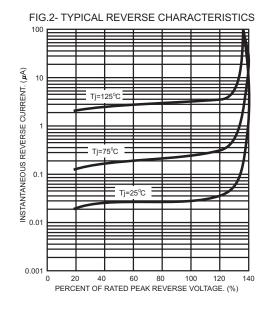
- 2. Measured at 1 MHz and Applied V_R =4.0 Volts.
- 3. Reverse Recovery Time Condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 4. Measured on P.C. Board with 0.2" x 0.2" (5.0mm x 5.0mm) Copper Pad Areas.

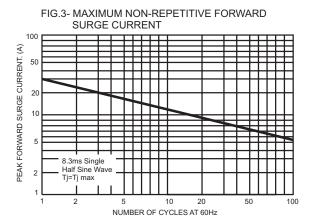
Version: E08

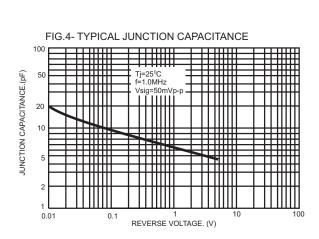


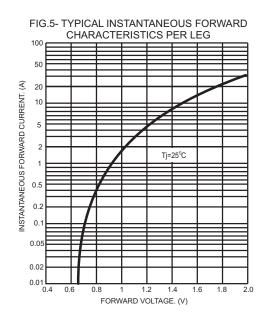
RATINGS AND CHARACTERISTIC CURVES (S1AL THRU S1ML)











Version:E08