

RS1AL - RS1ML

0.8 AMP. Surface Mount Fast Recovery Rectifiers

Sub SMA



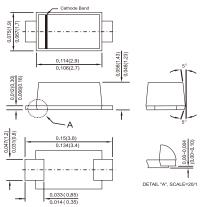


Features

- For surface mounted application
- Glass passivated junction chip
- Built-in strain relief, ideal for automated
- placement
 Plastic material used carries Underwriters Laboratory Classification 94V-0
- Fast switching for high efficiency
- High temperature soldering: 260°C/ 10 seconds at terminals
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- Cases: Molded plastic
- Terminals: Solder plated
- Polarity: Indicated by cathode band Packing: 8mm / 12mm tape per EIA STD RS-481
- Weight: 0.015 grams



Dimensions in inches and (millimeters)

Marking Diagram



= Specific Device Code = Green Compound

Μ = Work Month

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	RS 1AL	RS 1BL	RS 1DL	RS 1GL	RS 1JL	RS 1KL	RS 1ML	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1 @T _L =90°C	I F(AV)	0.8							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	30							А
Maximum Instantaneous Forward Voltage @ 1.0A	VF	1.3							V
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		5 50							uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	150 250 500					nS		
Typical Junction Capacitance (Note 3)	Cj	10							pF
Typical Thermal Resistance (Note 4)	R θJA R θJL	105 32							°C /W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

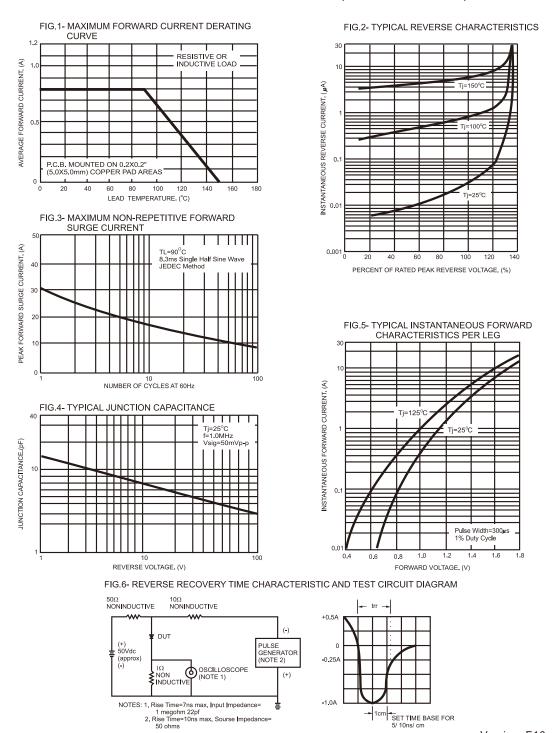
Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

- 2. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
- 3. Measured at 1 MHz and Applied VR=4.0 Volts
- 4. Mounted on P.C.B. with 0.2" x 0.2" (5 mm x 5 mm) Copper Pad Areas.

Version: F10



RATINGS AND CHARACTERISTIC CURVES (RS1AL THRU RS1ML)



Version: F10