TSC 9b

RSFAL THRU RSFML

0.5 AMP. Surface Mount Fast Recovery Rectifiers



Voltage Range 50 to 1000 Volts Current 0.5 Ampere

Features

- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- High temperature metallurgically bonded construction
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- ♦ Fast switching for high efficiency
- ♦ High temperature soldering: 260°C / 10 seconds at terminals

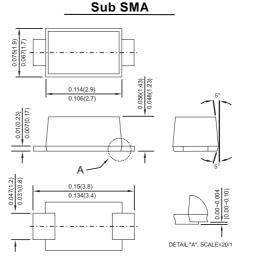
Mechanical Data

♦ Cases: Sub SMA plastic case♦ Terminals: Solder plated

♦ Polarity: Indicated by cathode band
♦ Packing: 12mm tape per E1A STD

RS-481

Weight: 15mg



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	RSF AL	RSF BL	RSF DL	RSF GL	RSF JL	RSF KL	RSF ML	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 4)		FALYM	FBLYM	FDLYM	FGLYM	FJLYM	FKLYM	FMLYM	
Maximum Average Forward Rectified Current See Fig. 1 @ T _L =55°C	I _(AV)	0.5							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	10							А
Max. Full Load Reverse Current, Full cycle Average $T_A = 55^{\circ}C$	I_R	30							uA
Maximum Instantaneous Forward Voltage @ 0.5A	V _F	1.3							V
Maximum DC Reverse Current @ T_A =25 $^{\circ}$ C at Rated DC Blocking Voltage @ T_A =125 $^{\circ}$ C	I _R	5 50							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500				nS			
Typical Junction Capacitance (Note 2)	Cj	4.0							pF
Typical Thermal Resistance (Note 3)	$R heta_{JA} \ R heta_{JL}$	150 32							C\M C\M
Operating Temperature Range	TJ	-55 to +150							C
Storage Temperature Range	Тѕтс	-55 to +150							°C

Notes: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

- 2. Measured at 1 MHz and Applied VR=4.0 Volts
- 3. Measured on P.C.Board with 0.2" x 0.2" (5mm x 5mm) Copper Pad Areas.
- 4. FALYM: F=0.5A, A=50V, L-Low Profile, Y-Year Code, M-Month Code.



