FS1A/RS1A-FS1MA1/RS1M

1.0AMP.Surface Mount Fast Recovery Rectifiers

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

Mechanical Data

- ∻ Cases: Molded plastic
- ∻ Terminals: Pure tin plated, Lead free.
- ∻ Polarity: Indicated by cathode band
- Packing: 12mm tape per EIA STD ∻
 - RS-481
- Weight: 0.064 gram ∻

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%

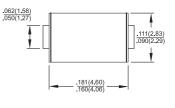
Type Number	Symbol	RS1A FS1A	RS1B FS1B	RS1D FS1D	RS1G FS1G	RS1J FS1J	RS1K FS1K	RS1M FS1M	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1 @T _L =90 °C	I _(AV)	1.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage @ 1.0A	V_{F}	1.3							V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	5 50							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500				00	nS		
Typical Junction Capacitance (Note 2)	Cj	10						pF	
Typical Thermal Resistance (Note 3)	R _{θJA} R _{θJL}	105 32							°C /W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							С°

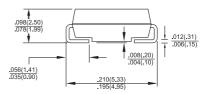
1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A Notes:

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

3. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2"x0.2" (5.0 x 5.0 mm) Copper Pad Areas.

SMA/DO-214AC



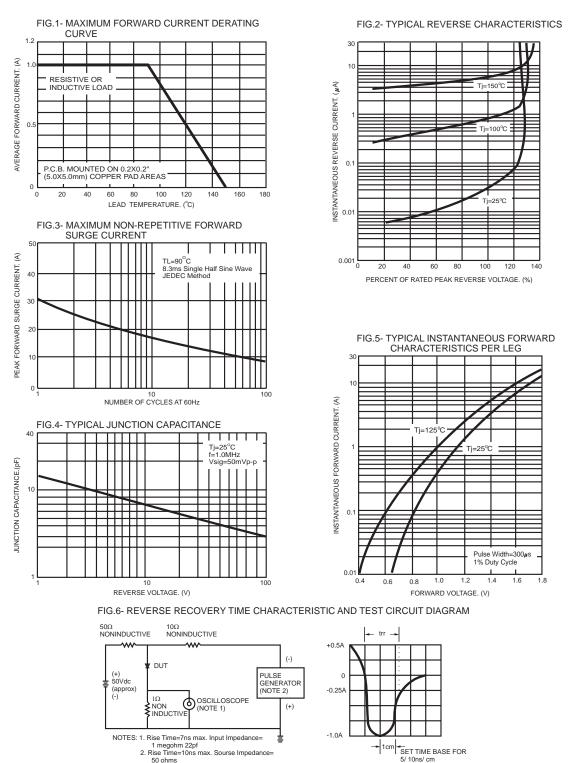


Dimensions in inches and (millimeters)

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RATINGS AND CHARACTERISTIC CURVES (RS1A THRU RS1M)



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