

RS1A THRU RS1M

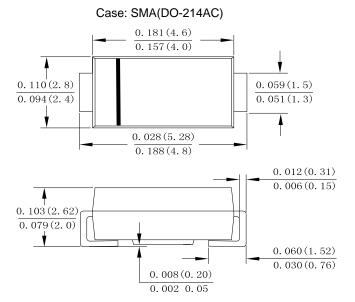
1.0AMP Surface Mount Glass Fast Recovery Rectifier

Features

- Fast switching for high efficiency
- · Low Power Loss, High Efficiency
- · High current capability
- · For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classication Rating 94V-0

Mechanical Data

- · Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- · Polarity: Cathode Band or Cathode Notch
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit
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	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =100°C	IF(AV)	1.0							А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігэм	30							A
Rating for fusing (t<8.3ms)	l²t	3.74							A ² s
Forward Voltage @IF=1.0A	V_{FM}	1.3							V
Peak Reverse Current @T _A =25 °C		5.0 200							uA
At Rated DC Blocking Voltage@T _A =125°C	I _R								
Maximum Reverse Recovery Time (Note1)	Trr		150			250	500)	ns
Typical Junction Capacitance (Note 2)	С	7							pF
Typical Thermal Resistance Junction to Ambient(Note 3)	Reja Rejl	100 32							°C/W
Operating Temperature Range	TJ	-55 to+150							$^{\circ}\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

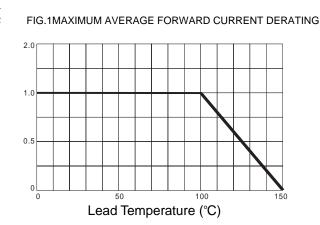
Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

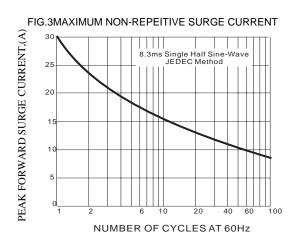
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

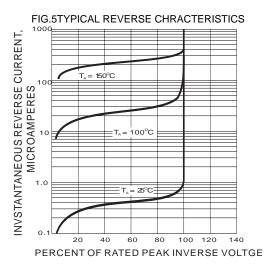
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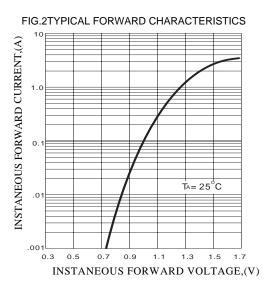


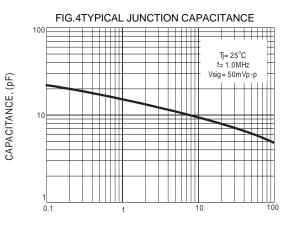
AVERGE FORWARD RECTIFIED CURRENT, (A)



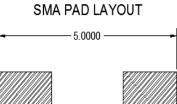








REVERSE VOLTAGE, (V)



1.4000 ---1.5000 --

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