

RS1A(H) THRU RS1M(H)

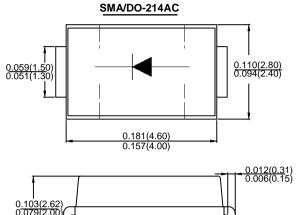
1.0AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER

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(H) | RS1B(H) | RS1D(H) | RS1G(H) | RS1J(H) | RS1K(H) | RS1M(H) | Unit |
|--|------------------|------------------------|---------|---------|---------|---------|---------|----------------------|------------------------|
| 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 |
| Average Rectified Output Current @T∟ =100°C | IF(AV) | 1.0 | | | | | | | Α |
| Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I FSM | 30 | | | | | | | А |
| 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 | | I _R 5.0 200 | | | | | | | uA |
| At Rated DC Blocking Voltage@T _A =125°C | I _R | | | | | | | | |
| Maximum Reverse Recovery Time (Note1) | Trr | | 150 | | | 250 | 500 | 0 | ns |
| Typical Junction Capacitance (Note 2) | CJ | 7 | | | | | | pF | |
| Typical Thermal Resistance Junction to Ambient(Note 3) | Reja Rejl | 100 32 | | | | | | °C/W | |
| Operating Temperature Range | ТJ | -55 to+150 | | | | | | | $^{\circ}\!\mathbb{C}$ |
| Storage Temperature Range | Тѕтс | -55 to +150 | | | | | | $^{\circ}\mathbb{C}$ | |

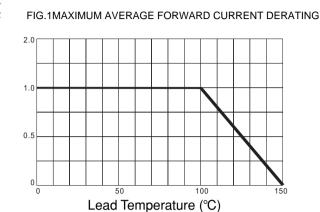
Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

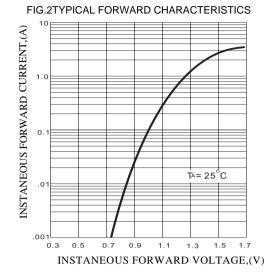
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

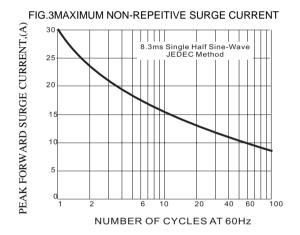


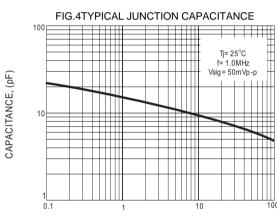
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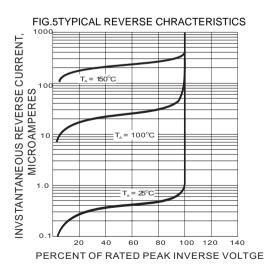
AVERGE FORWARD RECTIFIED CURRENT, (A)

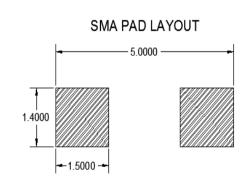












REVERSE VOLTAGE, (V)



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