

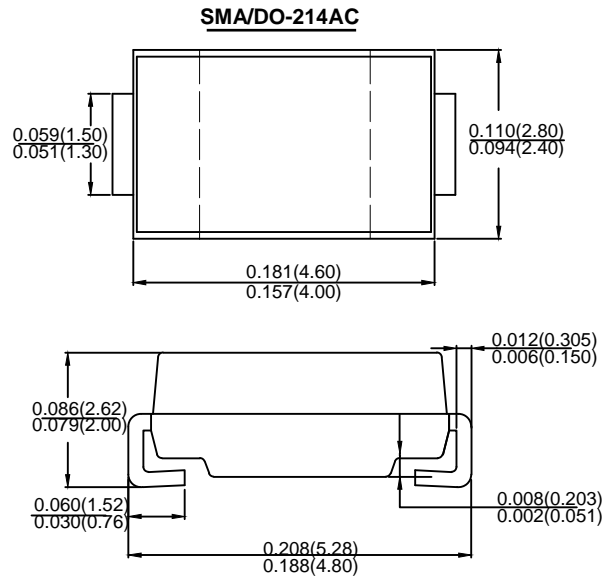
### Features

- 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

Classification Rating 94V-0

### Mechanical Data

- Case: Moeded 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   | $V_{RRM}$       | 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<br>@ $T_A = 75^\circ C$   | $I_o$           | 1.0         |      |      |      |      |      |      | A            |
| Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$       | 30          |      |      |      |      |      |      | A            |
| Forward Voltage @ $I_F = 1.0A$   | $V_{FM}$        | 1.3         |      |      |      |      |      |      | V            |
| Peak Reverse Current @ $T_A = 25^\circ C$  | $I_R$           | 5.0         |      |      |      |      |      |      | uA           |
| At Rated DC Blocking Voltage @ $T_A = 100^\circ C$   |                 | 150         |      |      |      |      |      |      |              |
| Maximum Reverse Recovery Time (Note 1)   | $T_{rr}$        | 150         |      |      | 250  |      | 500  |      | ns           |
| Typical Junction Capacitance (Note 2)  | $C_J$           | 12          |      |      |      |      |      |      | pF           |
| Typical Thermal Resistance Junction to Ambient (Note 3)  | $R_{\theta JA}$ | 100         |      |      |      |      |      |      | $^\circ C/W$ |
|  | $R_{\theta JL}$ | 32          |      |      |      |      |      |      |              |
| Operating Temperature Range  | $T_J$           | -55 to +150 |      |      |      |      |      |      | $^\circ C$   |
| Storage Temperature Range  | $T_{STG}$       | -55 to +150 |      |      |      |      |      |      | $^\circ C$   |

Note: 1.Reverse Recovery Test Conditions:  $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$ .

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. 8.0mm<sup>2</sup> (.013mm thick) land areas.

