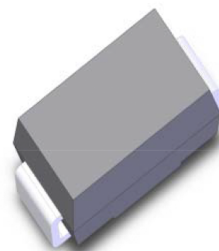


## Features

- Glass passivated Standard rectifiers
- Ideal for automated placement
- Low forward voltage drop
- High forward surge capability
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified



## Typical Applications

DO-214AC(SMA)

- For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

## Mechanical Data

- Case:DO-214AC, molded epoxy body, Epoxy meets UL 94V-0 flammability rating
- Terminal:Matte tin plated leads, solderable per J-STD-002 and JESD22B-106
- Polarity:Indicated by cathode band

## Maximum Ratings and Electrical Characteristics

(TA = 25 °C unless otherwise noted)

| Parameter                                                                          | Symbol         | M1   | M2  | M3  | M4  | M5  | M6  | M7   | Unit  |
|------------------------------------------------------------------------------------|----------------|------|-----|-----|-----|-----|-----|------|-------|
| Maximum repetitive 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                                                        | VDC            | 50   | 100 | 200 | 400 | 600 | 800 | 1000 | V     |
| Maximum average forward rectified current                                          | IF(AV)         | 1.0  |     |     |     |     |     |      | A     |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | IFSM           | 30.0 |     |     |     |     |     |      | A     |
| Maximum forward voltage at I <sub>F</sub> =1.0Amps                                 | V <sub>F</sub> | 1.0  |     |     |     |     |     |      | Volts |
| Maximum DC reverse current at rated DC blocking                                    | I <sub>R</sub> | 5.0  |     |     |     |     |     |      | uA    |
|                                                                                    |                |      |     |     |     |     |     |      |       |

Notes:1.Measured at 1.0MHz and applied reverse voltage of 4.0 D.C.

2.Thermal resistance from junction to lead, 0.197×0.197" (5.0×5.0mm) copper pads to each terminal

## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

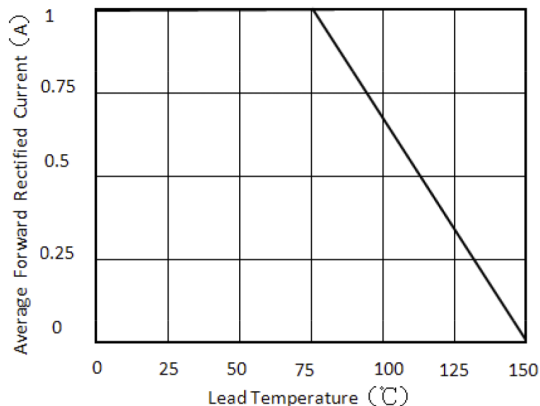


Figure 1. Forward Current Derating Curve

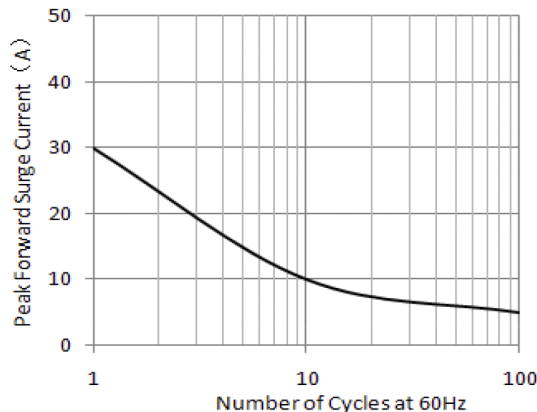


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

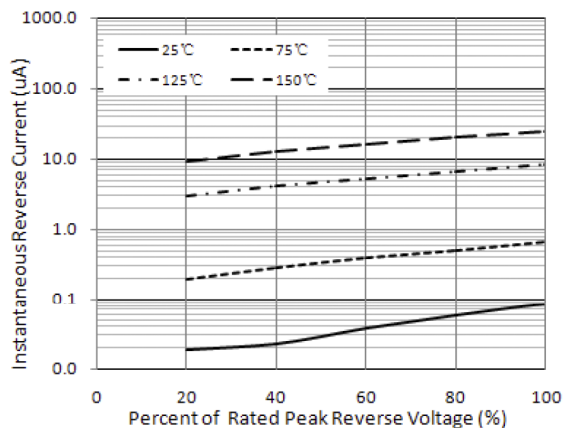


Figure 3. Typical Reverse Characteristics

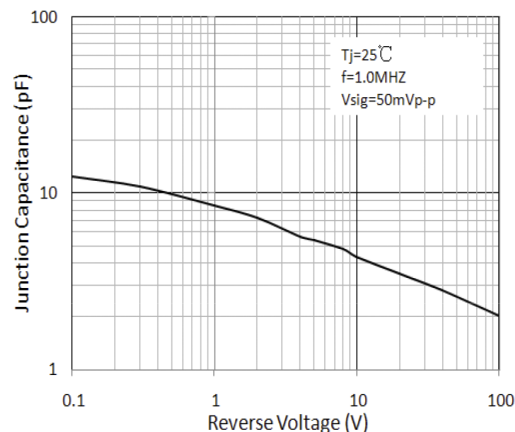


Figure 4. Typical Junction Capacitance

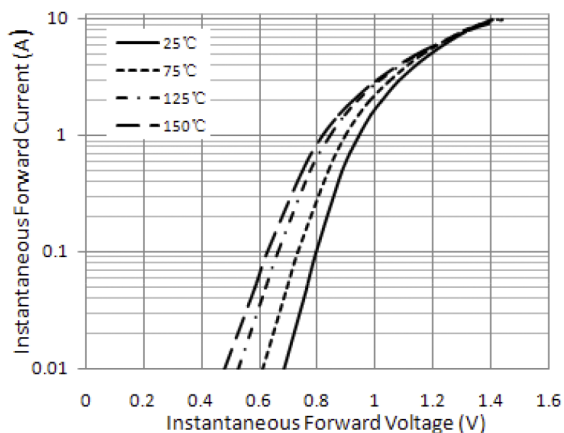
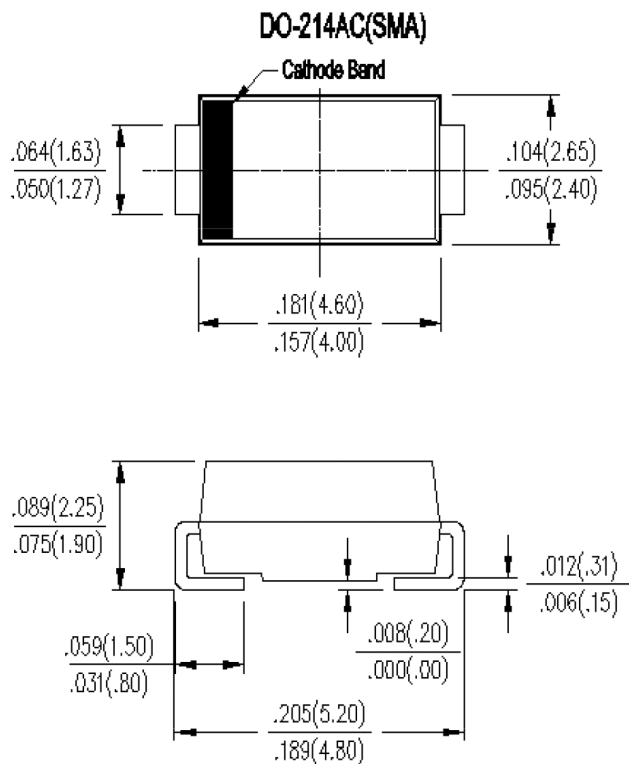


Figure 5. Typical Instantaneous Forward Characteristics

## Package Outline Dimensions

in inches (millimeters)



## MOUNTING PAD LAYOUT

