

## Features

- Average Forward Current:  $I_F(AV)=3A$
- Polarity: Color band denotes cathode



## Package Marking and Ordering Information

| Product ID   | Pack              | Marking | Qty(PCS) |
|--------------|-------------------|---------|----------|
| SS32B~SS320B | SMB<br>(DO-214AA) | SS3x    | 3000     |

x: From 2-20

**SMB  
(DO-214AA)**



## Maximum Ratings ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Item                                 | Symbol             | Unit | Test Conditions                                | SS3        |    |    |          |    |    |     |     |     |
|--------------------------------------|--------------------|------|------------------------------------------------|------------|----|----|----------|----|----|-----|-----|-----|
|                                      |                    |      |                                                | 2          | 3  | 4  | 5        | 6  | 8  | 10  | 15  | 20  |
| Repetitive Peak Reverse Voltage      | V <sub>RRM</sub>   | V    |                                                | 20         | 30 | 40 | 50       | 60 | 80 | 100 | 150 | 200 |
| MaximumRMS Voltage                   | V <sub>RMS</sub>   | V    |                                                | 14         | 21 | 28 | 35       | 42 | 56 | 70  | 105 | 140 |
| Average Forward Current              | I <sub>F(AV)</sub> | A    | 60Hz Half-sine wave,<br>Resistance load, FIG.1 | 3.0        |    |    |          |    |    |     |     |     |
| Surge(Non-repetitive)Forward Current | I <sub>FSM</sub>   | A    | 60Hz Half-sine wave,<br>1 cycle, Ta=25℃        | 70         |    |    |          |    |    |     |     |     |
| Junction T emperature                | T <sub>J</sub>     | ℃    |                                                | -50~+125   |    |    | -50~+150 |    |    |     |     |     |
| Storage Temperature                  | T <sub>STG</sub>   | ℃    |                                                | -50 ~ +150 |    |    |          |    |    |     |     |     |

## Electrical Characteristics ( $T_a=25^{\circ}\text{C}$ unless otherwise specified)

| Item                        | Symbol                        | Unit | Test Condition                    |        | SS3  |   |   |      |     |      |    |      |    |
|-----------------------------|-------------------------------|------|-----------------------------------|--------|------|---|---|------|-----|------|----|------|----|
|                             |                               |      |                                   |        | 2    | 3 | 4 | 5    | 6   | 8    | 10 | 15   | 20 |
| Peak Forward Voltage        | V <sub>F</sub>                | V    | I <sub>F</sub> =3.0A              |        | 0.55 |   |   | 0.70 |     | 0.85 |    | 0.95 |    |
| Peak Reverse Current        | I <sub>RRM1</sub>             | mA   | V <sub>RM</sub> =V <sub>RRM</sub> | Ta=25℃ | 0.5  |   |   |      | 0.1 |      |    |      |    |
|                             | Ta=100℃                       |      |                                   | 10     |      |   |   | 5    |     |      |    |      |    |
| Thermal Resistance(Typical) | R <sub>θJ-A</sub>             | ℃/ W | Between junction and ambient      |        | 55   |   |   |      |     |      |    |      |    |
|                             | Between junction and terminal |      | 20                                |        |      |   |   |      |     |      |    |      |    |

## Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm)

## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

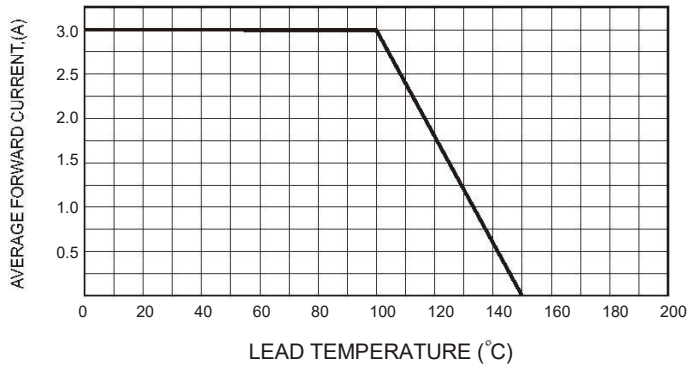


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

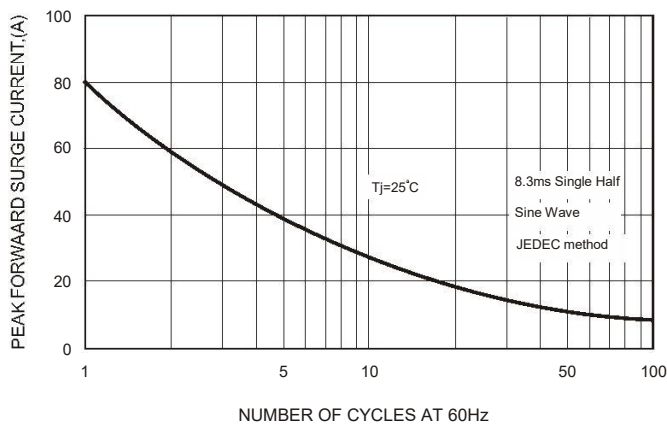


FIG.4-TYPICAL JUNCTION CAPACITANCE

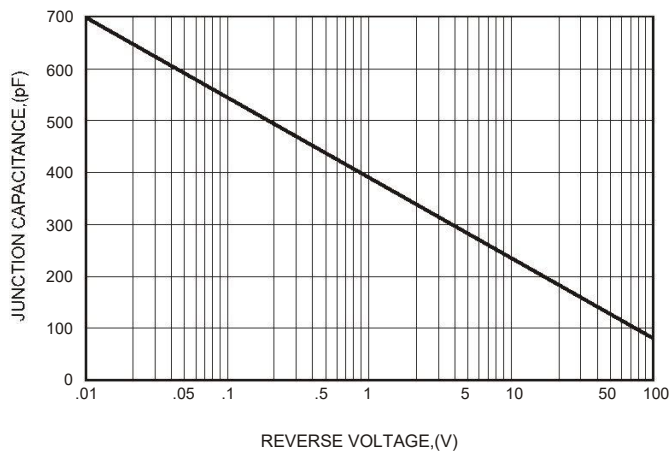


FIG.2-TYPICAL FORWARD CHARACTERISTICS

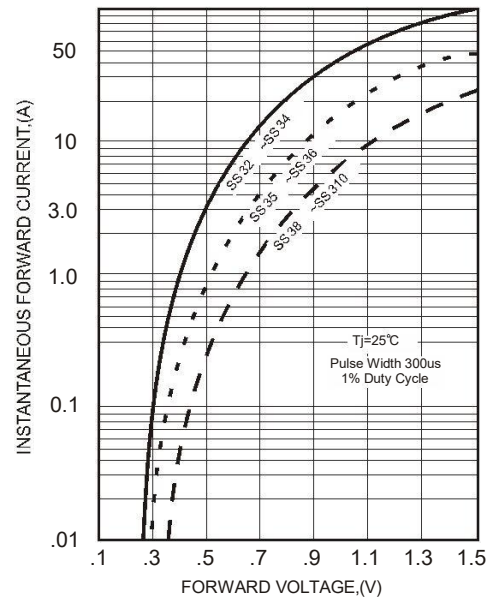
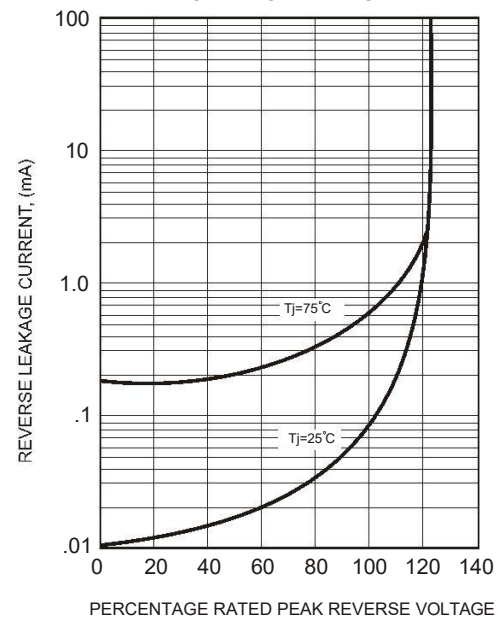
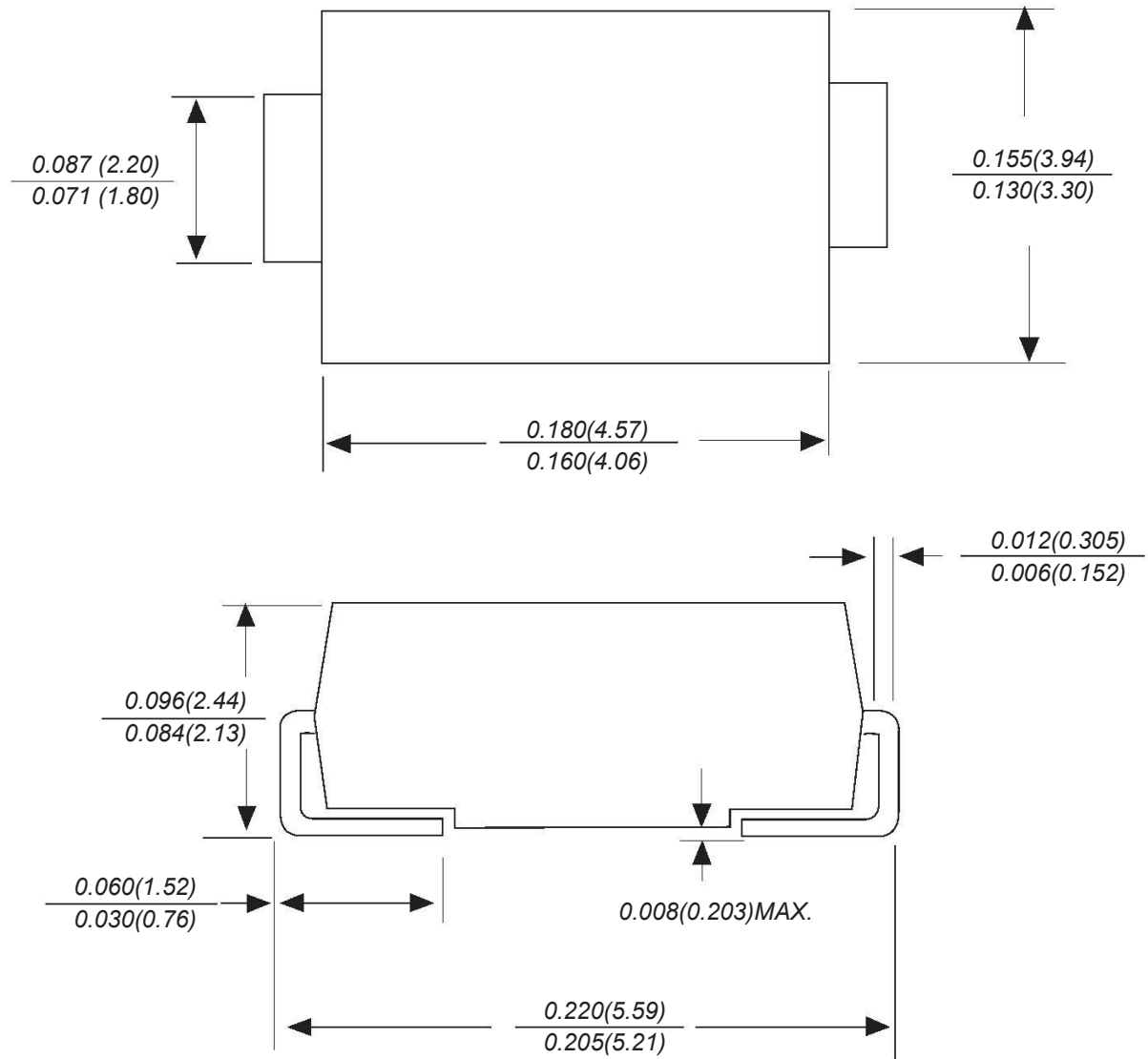


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



**Package Outline Dimensions**

SMB(DO-214AA)



*Dimensions in inches and (millimeters)*

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