



## Features

- Average Forward Current:  $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode



## Ordering Information

| Product ID | Pack              | Marking | Qty(PCS) |
|------------|-------------------|---------|----------|
| SK310B-LTP | SMB<br>(DO-214AA) | S31Y2   | 3000     |

**SMB  
(DO-214AA)**



## Maximum Ratings (Ta=25°C unless otherwise noted)

| Item                                 | Symbol      | Test Conditions                                | Limit      | Unit |
|--------------------------------------|-------------|------------------------------------------------|------------|------|
| Repetitive Peak Reverse Voltage      | $V_{RRM}$   |                                                | 100        | V    |
| Maximum RMS Voltage                  | $V_{RMS}$   |                                                | 70         | V    |
| Average Forward Current              | $I_{F(AV)}$ | 60Hz Half-sine wave,<br>Resistance load, FIG.1 | 3.0        | A    |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$   | 60Hz Half-sine wave,<br>1 cycle, Ta=25°C       | 70         | A    |
| Junction Temperature                 | $T_J$       |                                                | -50 ~ +150 | °C   |
| Storage Temperature                  | $T_{STG}$   |                                                | -50 ~ +150 | °C   |

## Electrical Characteristics (Ta=25°C unless otherwise specified)

| Item                        | Symbol           | Test Condition                | Limit              | Unit |
|-----------------------------|------------------|-------------------------------|--------------------|------|
| Peak Forward Voltage        | $V_F$            | $I_F=3.0A$                    | 0.85               | V    |
| Peak Reverse Current        | $I_{RRM1}$       | $V_{RM}=V_{RRM}$              | $T_a=25^{\circ}C$  | mA   |
|                             | $I_{RRM2}$       |                               | $T_a=100^{\circ}C$ |      |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | Between junction and ambient  | 55                 | °C/W |
|                             | $R_{\theta J-L}$ | Between junction and terminal | 20                 |      |

## Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

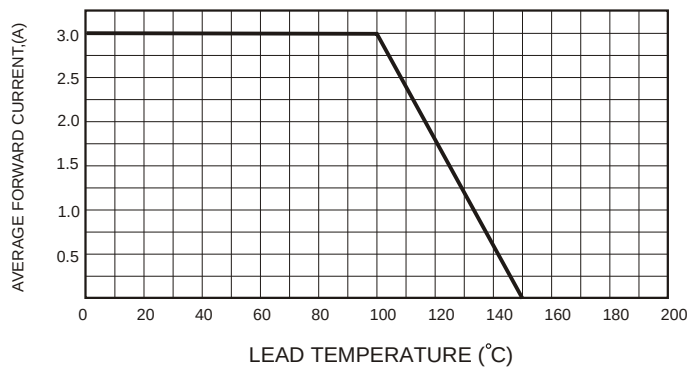


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

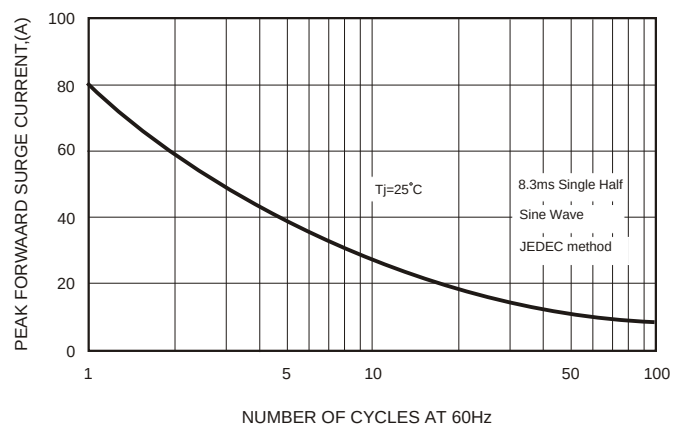


FIG.4-TYPICAL JUNCTION CAPACITANCE

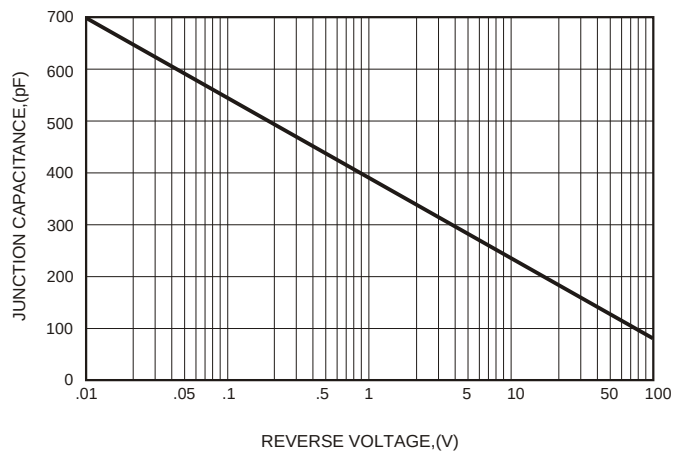


FIG.2-TYPICAL FORWARD CHARACTERISTICS

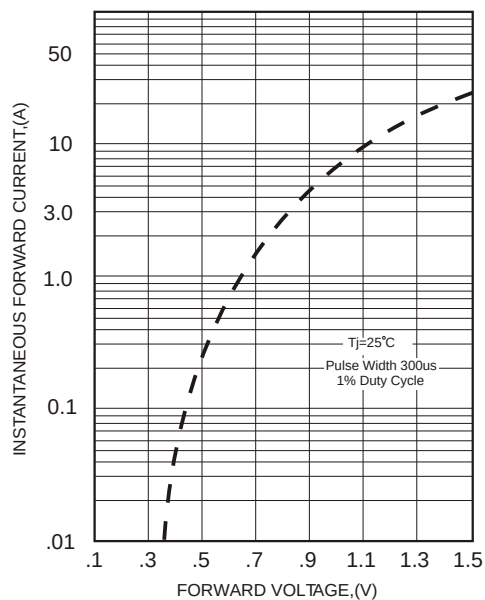
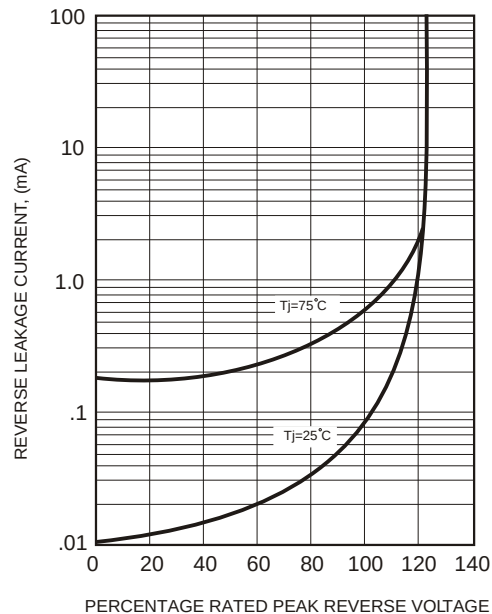
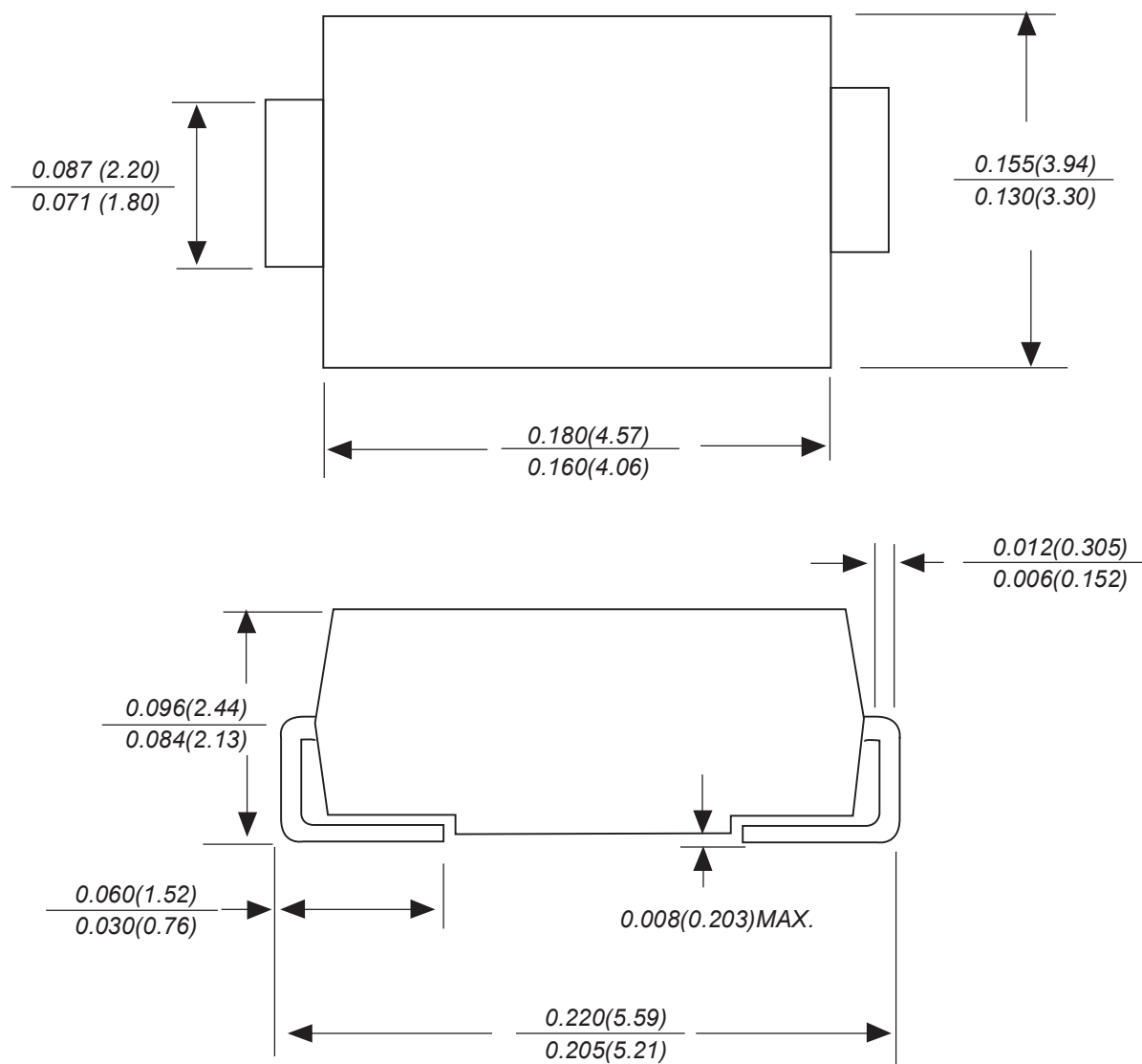


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





**Package Outline Dimensions**  
**SMB(DO-214AA)**



*Dimensions in inches and (millimeters)*



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