



## Features

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



SMB  
(DO-214AA)



## Ordering Information

| Product ID | Pack              | Marking | Qty(PCS) |
|------------|-------------------|---------|----------|
| STPS340U   | SMB<br>(DO-214AA) | S34U3   | 3000     |

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

| Item                                 | Symbol      | Test Conditions                             | Limit      | Unit |
|--------------------------------------|-------------|---------------------------------------------|------------|------|
| Repetitive Peak Reverse Voltage      | $V_{RRM}$   |                                             | 40         | V    |
| Maximum RMS Voltage                  | $V_{RMS}$   |                                             | 28         | V    |
| Average Forward Current              | $I_{F(AV)}$ | 60Hz Half-sine wave, Resistance load, FIG.1 | 3.0        | A    |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$   | 60Hz Half-sine wave, 1 cycle, Ta=25°C       | 70         | A    |
| Junction Temperature                 | $T_J$       |                                             | -55~+125   | °C   |
| Storage Temperature                  | $T_{STG}$   |                                             | -55 ~ +150 | °C   |

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

| Item                         | Symbol           | Test Condition                |          | Limit | Unit |
|------------------------------|------------------|-------------------------------|----------|-------|------|
| Peak Forward Voltage         | $V_F$            | $I_F=3.0A$                    |          | 0.55  | V    |
| Peak Reverse Current         | $I_{RRM1}$       | $V_{RM}=V_{RRM}$              | Ta=25°C  | 0.5   | mA   |
|                              | $I_{RRM2}$       |                               | Ta=100°C | 10    |      |
| 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 0.6" x 0.6" (16 mm x 16 mm) copper pad areas



## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

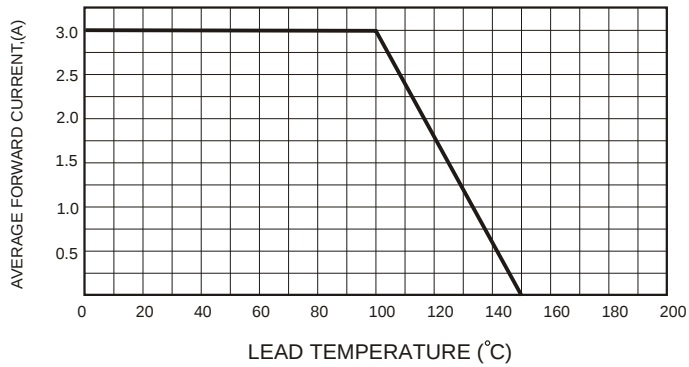


FIG.2-TYPICAL FORWARD  
CHARACTERISTICS

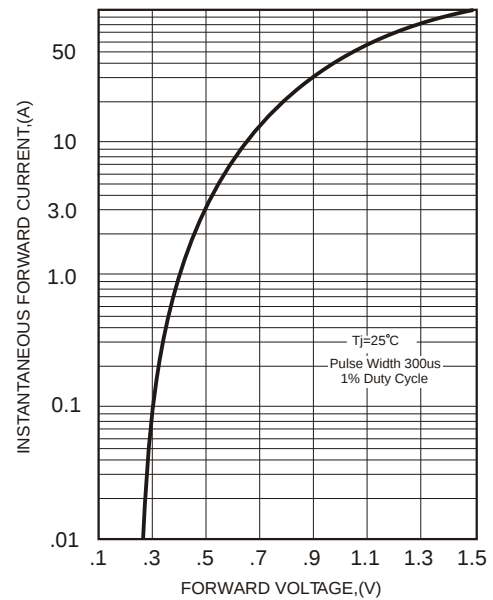


FIG.3-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

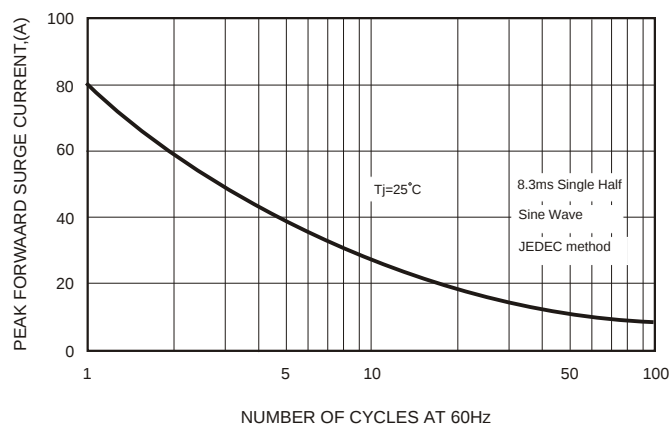


FIG.4-TYPICAL JUNCTION CAPACITANCE

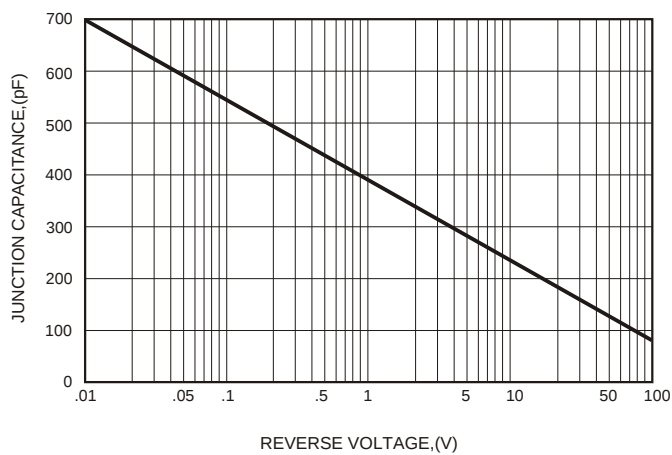
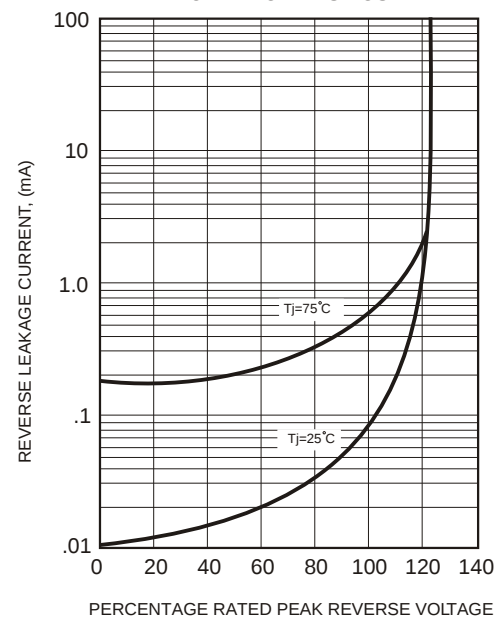
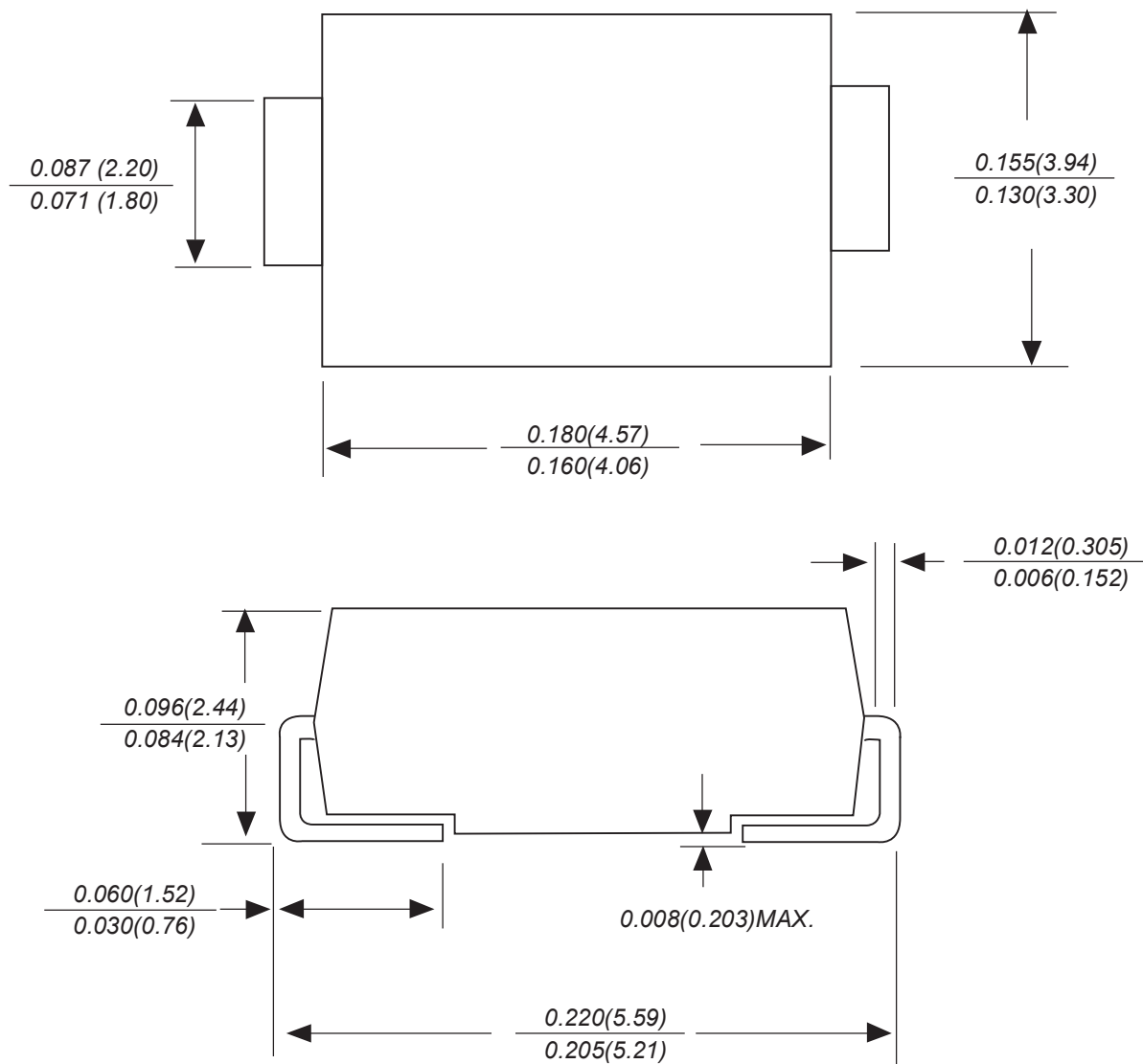


FIG.5 - TYPICAL REVERSE  
CHARACTERISTICS





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



*Dimensions in inches and (millimeters)*



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