



## Features

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



SMC  
(DO-214AB)



## Package Marking and Ordering Information

| Product ID | Pack              | Marking | Qty(PCS) |
|------------|-------------------|---------|----------|
| B340-13-F  | SMC<br>(DO-214AB) | SS34    | 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       | 80         | 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        | $I_{RRM1}$       | $V_{RM}=V_{RRM}$              | $T_a=25^{\circ}C$  | mA       |
|                             | $I_{RRM2}$       |                               | $T_a=100^{\circ}C$ |          |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | Between junction and ambient  | 60                 | °C/<br>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 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

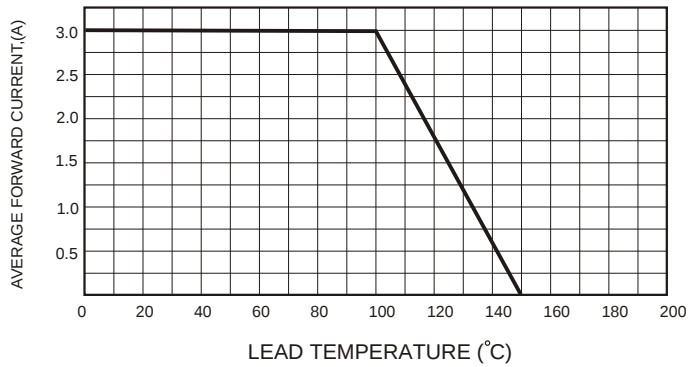


FIG.2-TYPICAL FORWARD  
CHARACTERISTICS

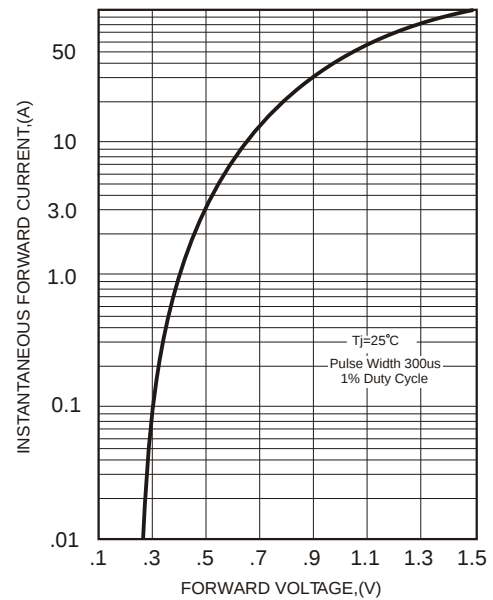


FIG.3-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

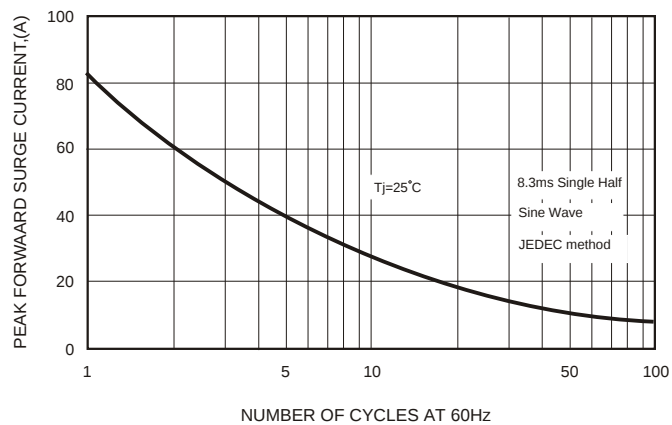


FIG.4-TYPICAL JUNCTION CAPACITANCE

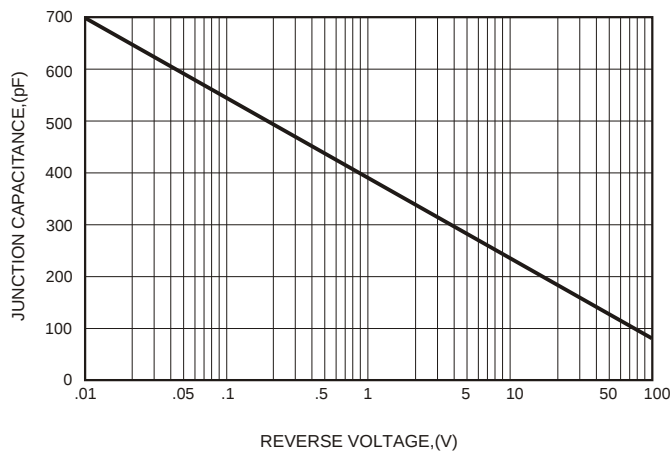
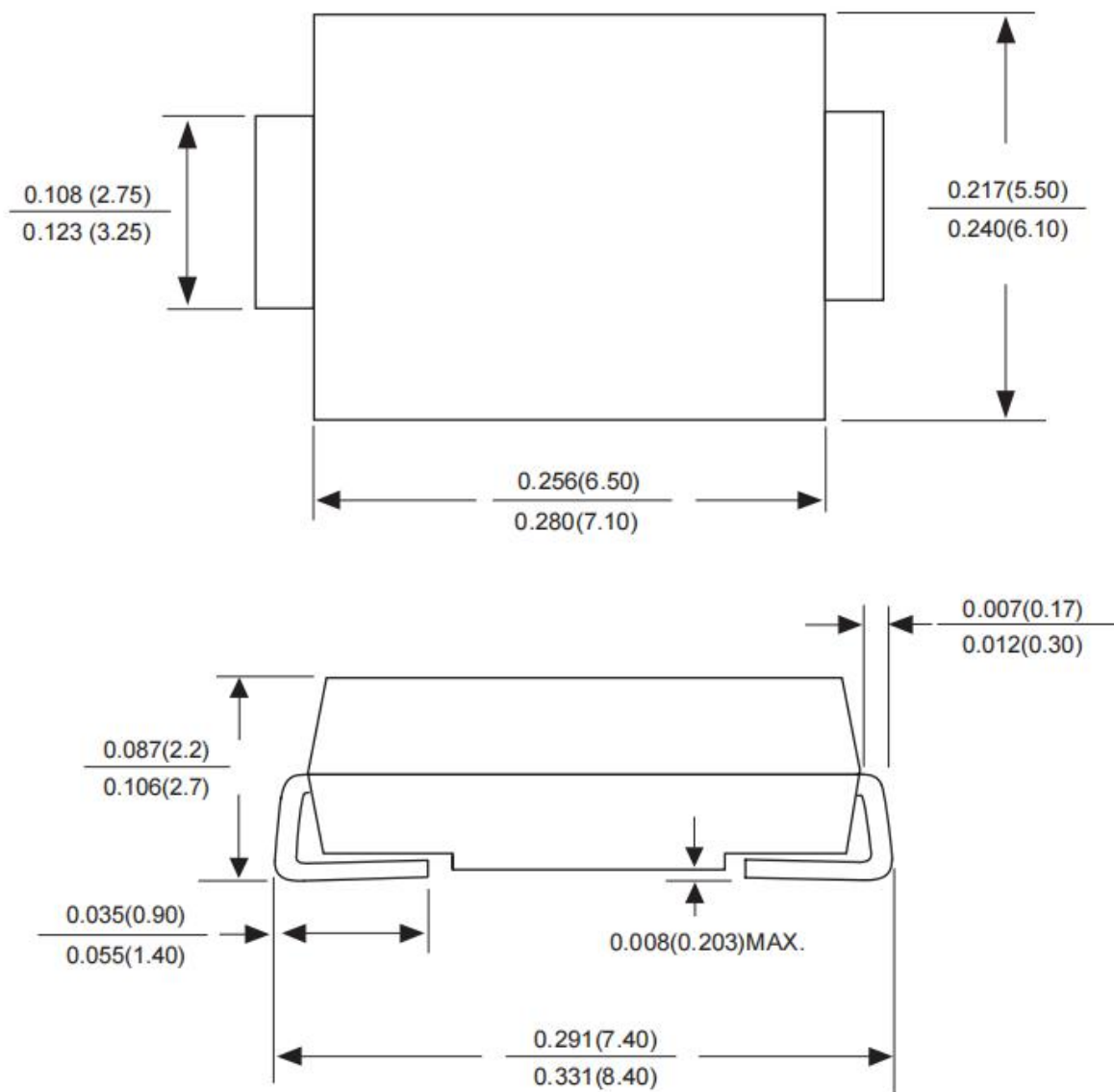


FIG.5 - TYPICAL REVERSE  
CHARACTERISTICS





**Package Outline Dimensions**  
**SMC(DO-214AB)**



Dimensions in inches and (millimeters)



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