## Features

- Average Forward Current:$I_{F(AV)}$=5A
- Polarity: Color band denotes cathode



**SMC**
**(DO-214AB)**



## Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|---|---|---|---|
| B540C-13-F | SMC (DO-214AB) | SS54 | 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 | 5.0 | A |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$ | 60Hz Half-sine wave, 1 cycle, Ta=25°C | 150 | A |
| Junction Temperature | $T_J$ | | -50 ~ +125 | °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 | $V_F$ | $I_F$=5.0A | | 0.55 | V |
| Peak Reverse Current | $I_{RRM1}$ | $V_{RM}=V_{RRM}$ | Ta=25°C | 0.1 | mA |
| | $I_{RRM2}$ | | Ta=100°C | 5 | |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | Between junction and ambient | | 60 | °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

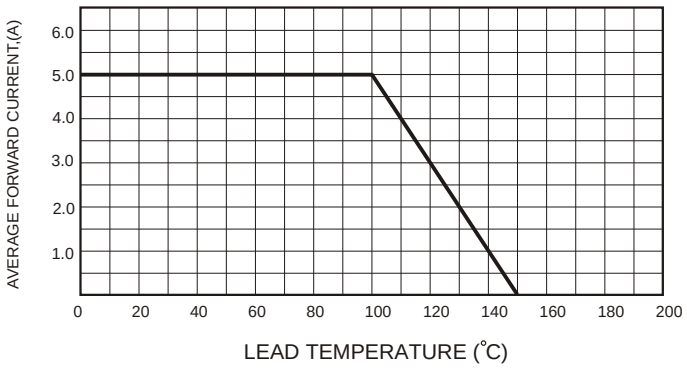



FIG.2-TYPICAL FORWARD CHARACTERISTICS

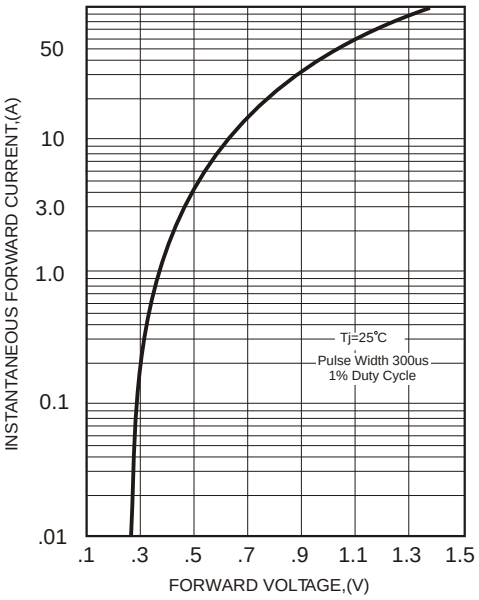



FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

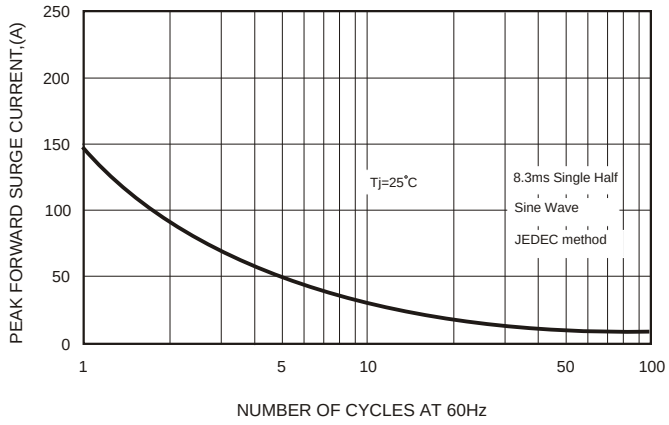



FIG.4-TYPICAL JUNCTION CAPACITANCE

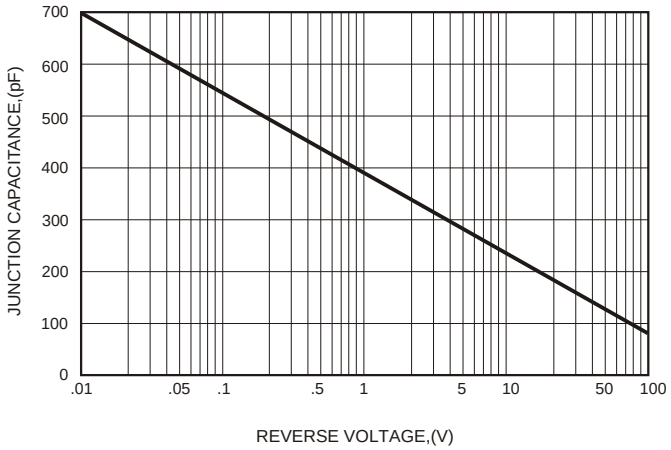
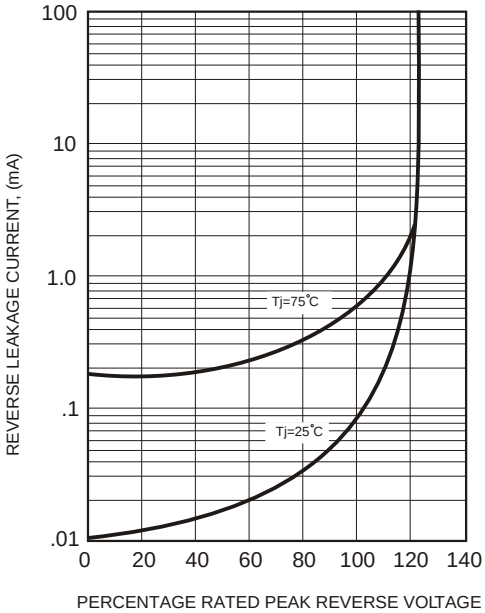
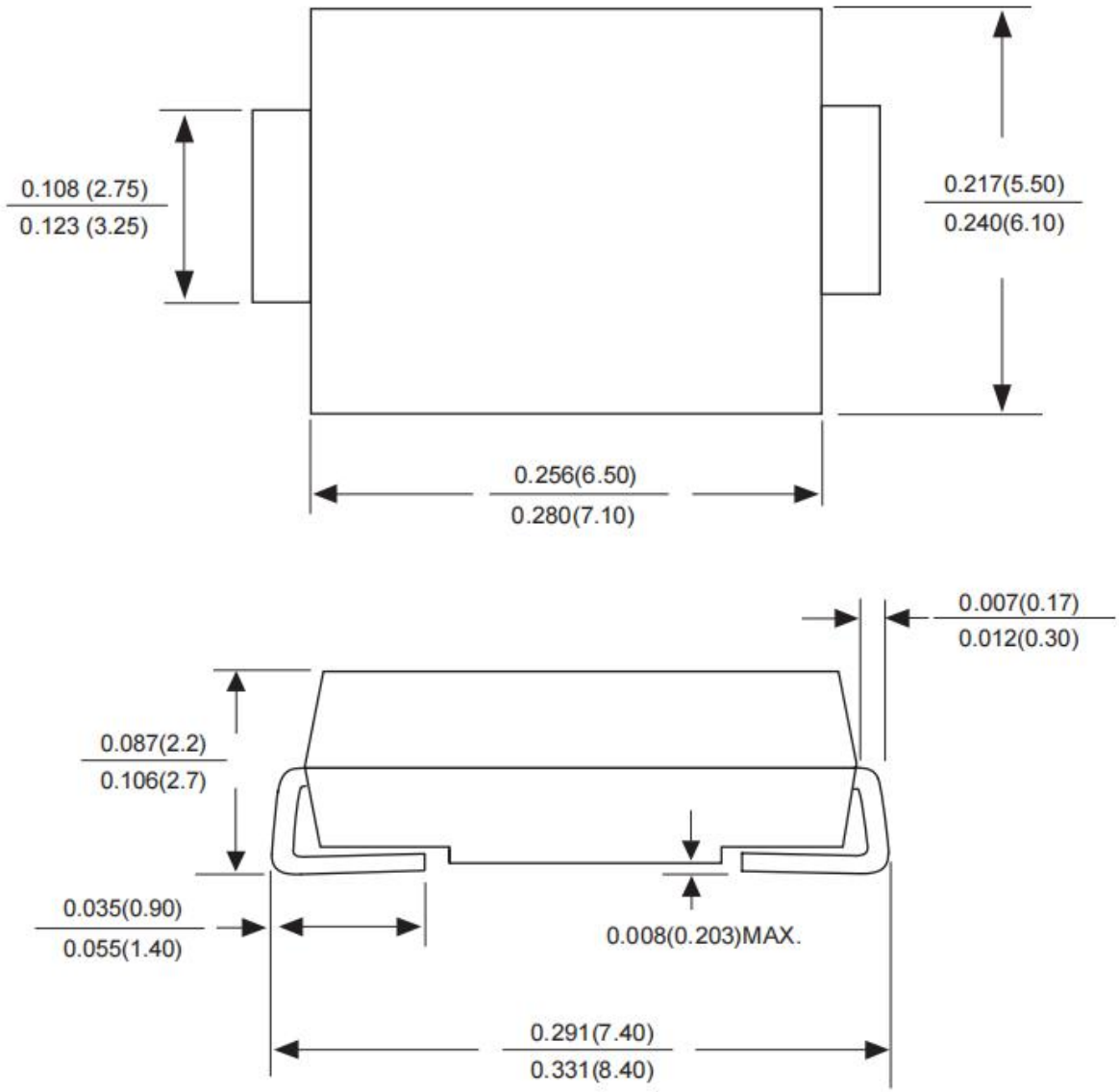



FIG.5 - TYPICAL REVERSE CHARACTERISTICS



## Package Outline Dimensions

SMC(DO-214AB)




Dimensions in inches and (millimeters)

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## HXY MOSFET:

PJEC5V0M1FN2 BV05C-H HCEZ36V,L3F HLY323BC1524L HRCLAMP3371ZCTFT AZ4836-01L ESD5LM5.0C-HXY HESDSLC3V3D3B HSG3D15B3.3MA PESDNC2XD5VBL PJSD24CW_R1 RLSD32A121V HESD36VD3B HSEN2411D3 PESDNC2XD5VBF HSTS521050B331 AZ4007-01H HAZ4007-01H HSEN3611D3 TPSMB100CA-VR AQ15C-01FTG ESD5L5.0C-HXY HACPDQC5V0-HF TPSMB28A-VR PESDSC2FD5VU 60N06 HPTVSUC3D5VB HSD15C.TCT LM393DR-HXY PESDLC2FD3V3BH