



Features

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



Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|-------------|-------------------|---------|----------|
| ACDBC540-HF | SMC (DO-214AB) | SS54 | 3000 |

SMC
(DO-214AB)



Maximum Ratings ($T_a=25^{\circ}C$ 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, $T_a=25^{\circ}C$ | 150 | A |
| Junction Temperature | T_J | | -50 ~ +125 | $^{\circ}C$ |
| Storage Temperature | T_{STG} | | -50 ~ +150 | $^{\circ}C$ |

Electrical Characteristics ($T_a=25^{\circ}C$ 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} | $V_{RM}=V_{RRM}$ | 0.1 | mA |
| | I_{RRM2} | | 5 | |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | Between junction and ambient | 60 | $^{\circ}C/W$ |
| | $R_{\theta J-L}$ | 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

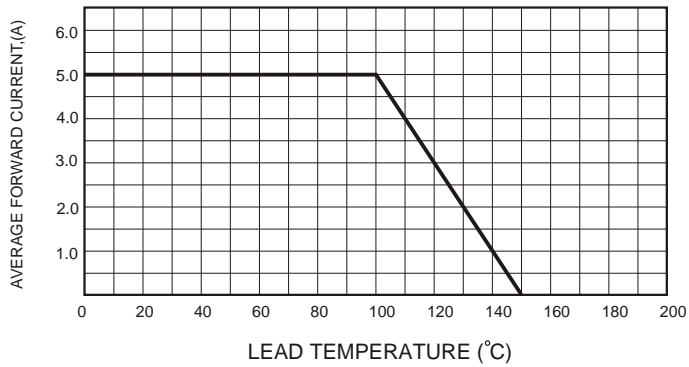


FIG.2-TYPICAL FORWARD
CHARACTERISTICS

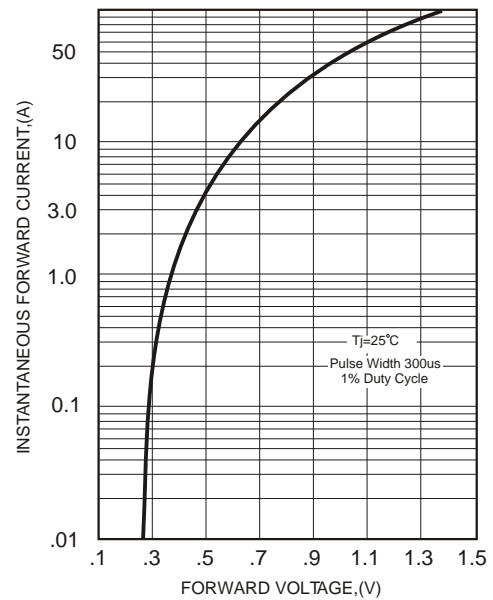


FIG.3-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

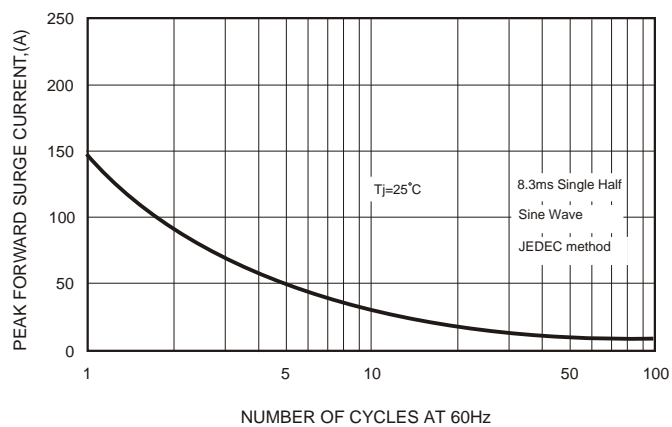


FIG.5 - TYPICAL REVERSE
CHARACTERISTICS

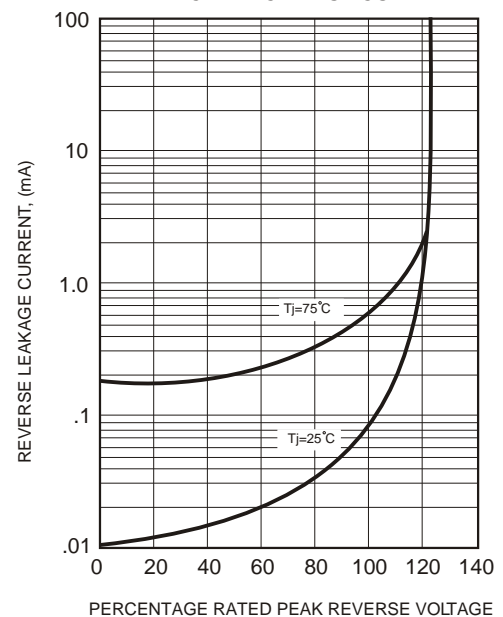
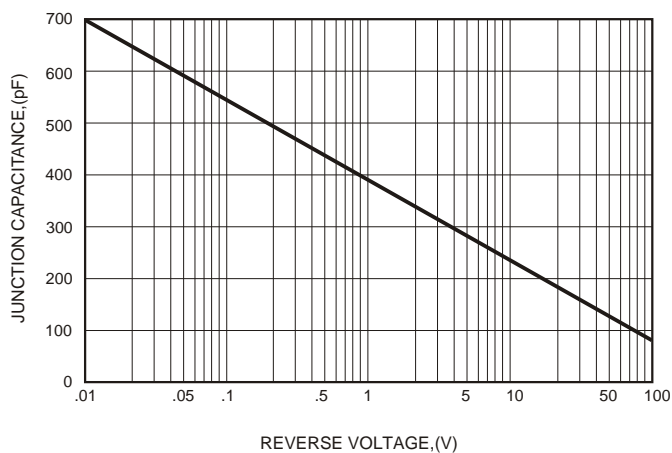
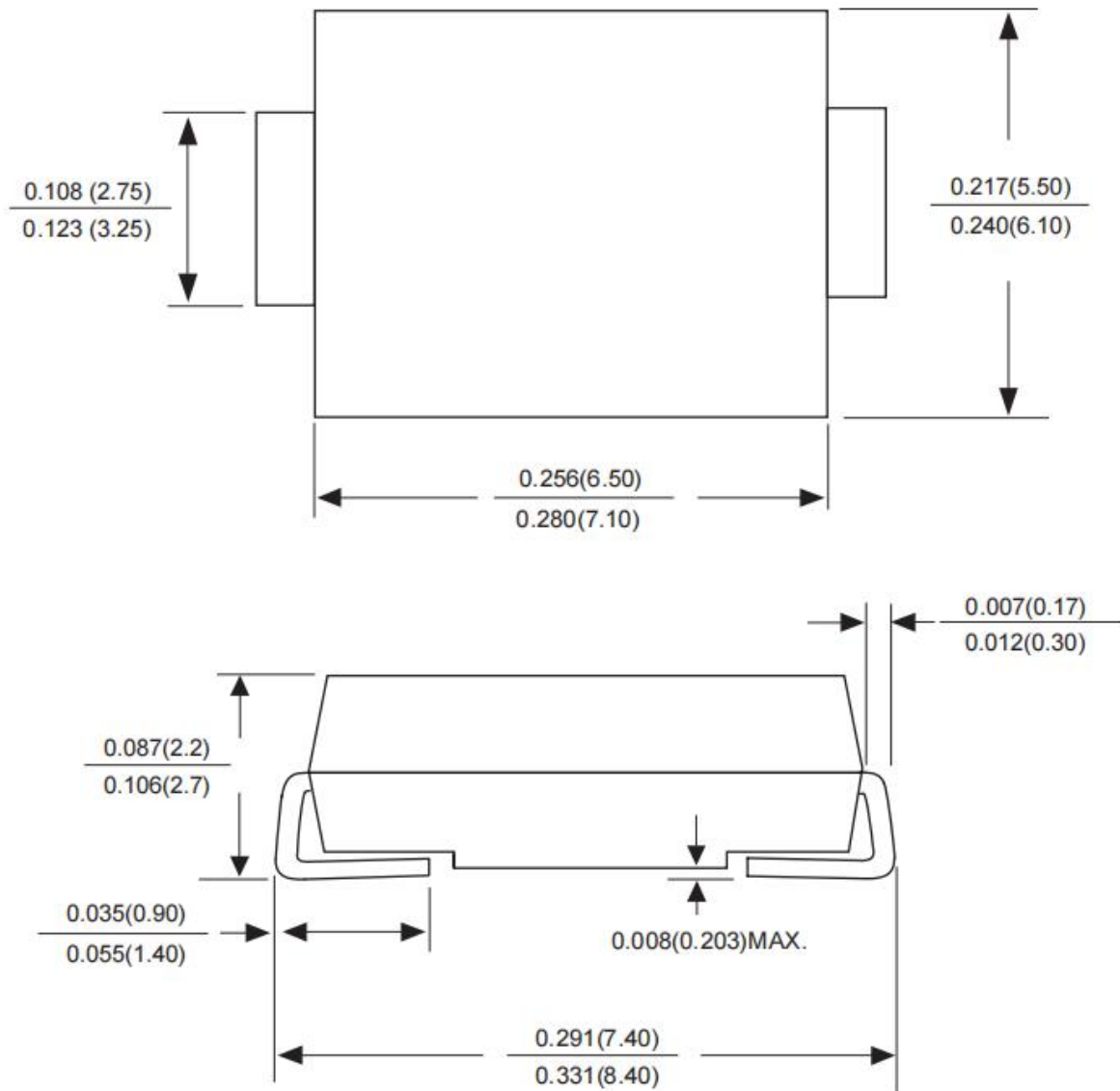


FIG.4-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions
SMC(DO-214AB)



Dimensions in inches and (millimeters)



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