# RB168L100DDTE25
## SCHOTTKY RECTIFIER DIODES

### Features
- Average Forward Current:$I_{F(AV)}$=1A
- Polarity: Color band denotes cathode




**SMA**
**(DO-214AC)**



### Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|---|---|---|---|
| RB168L100DDTE25 | SMA (DO-214AC) | R16N8 | 2000 |

### 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, Resistance load, FIG.1 | 1.0 | A |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$ | 60Hz Half-sine wave, 1 cycle, Ta=25°C | 30 | A |
| Junction Temperature | $T_J$ | | -55~+150 | °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 | $V_F$ | $I_F$=1.0A | | 0.85 | V |
| Peak Reverse Current | $I_{RRM1}$ | $V_{RM}=V_{RRM}$ | Ta =25°C | 0.1 | mA |
| | $I_{RRM2}$ | | Ta =100°C | 5.0 | |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | Between junction and ambient | | 65 | °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: FORWARD CURRENT DERATING CURVE

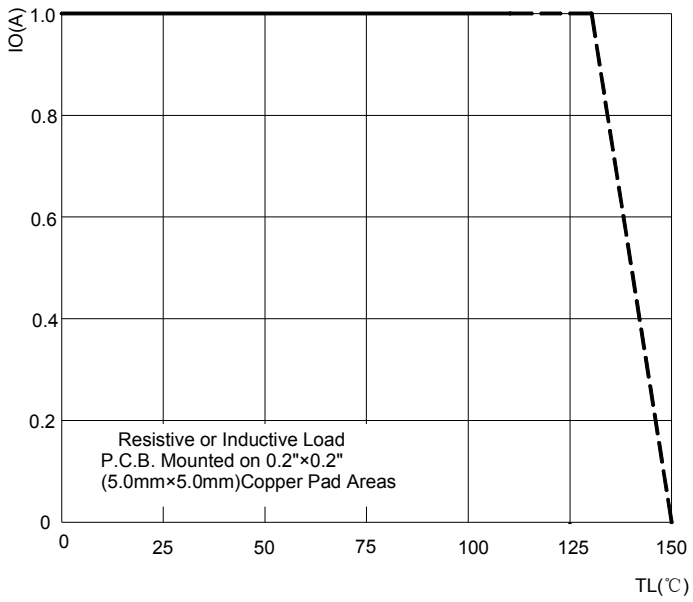



FIG2:Surge Forward Current Capadility

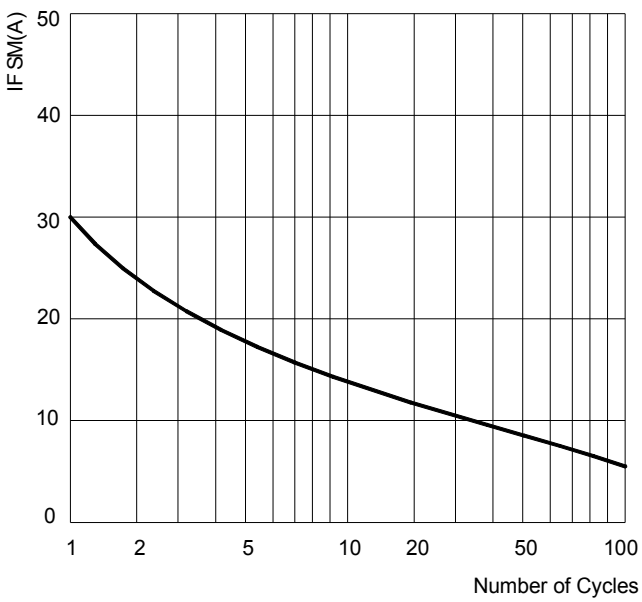



FIG.3: TYPICAL FORWARD CHARACTERISTICS

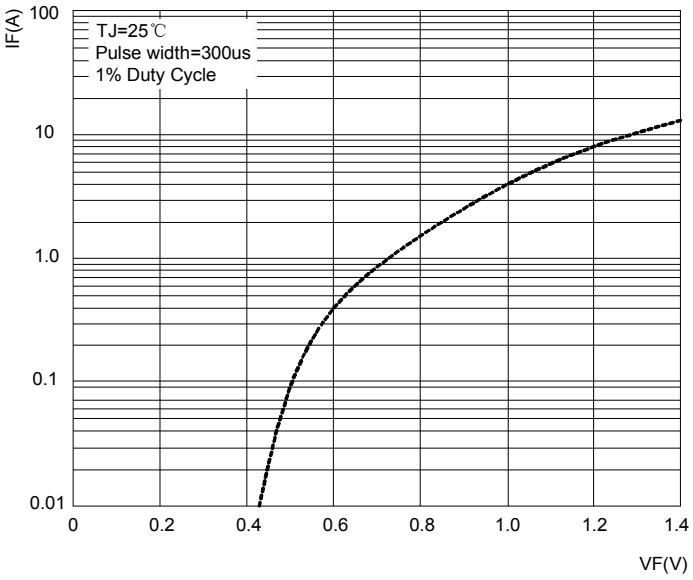
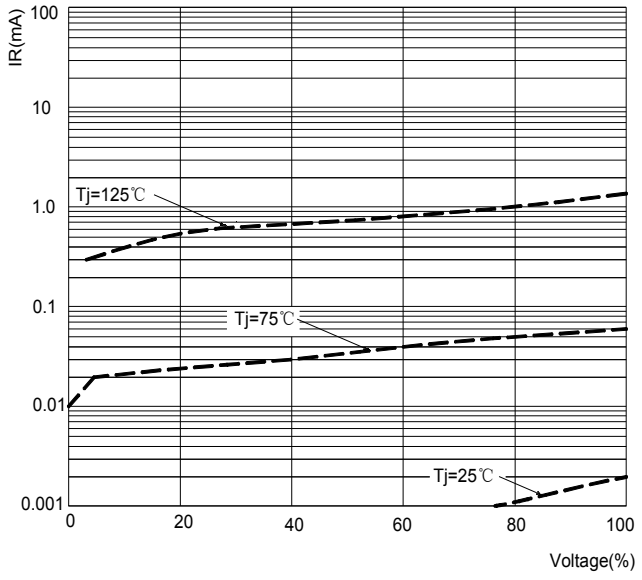
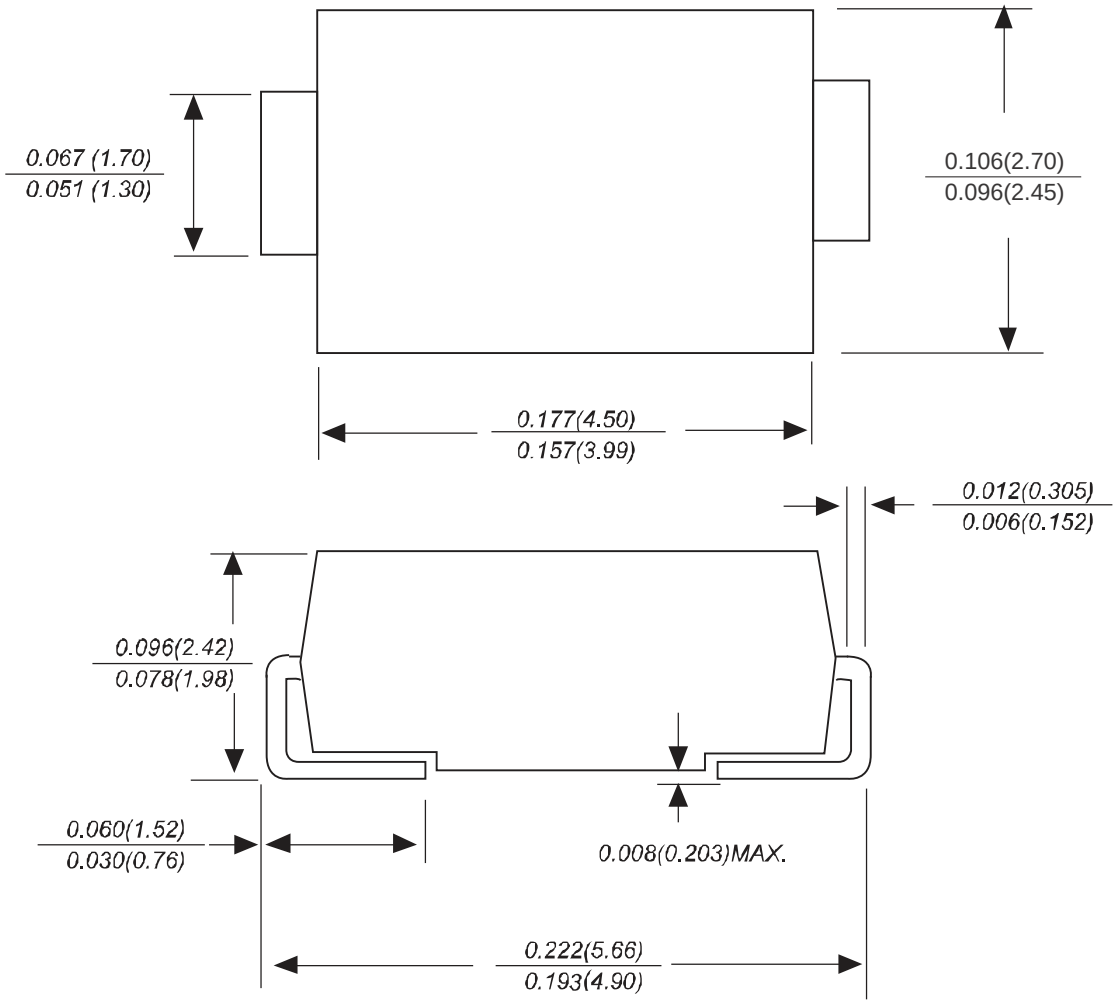



FIG.4：TYPICAL REVERSE CHARACTERISTICS



## Package Outline Dimensions

SMA(DO-214AC)




*Dimensions in inches and (millimeters)*

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