



## Features

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



SMA  
(DO-214AC)



## Package Marking and Ordering Information

| Product ID    | Pack              | Marking | Qty(PCS) |
|---------------|-------------------|---------|----------|
| CMSH1-40MTR13 | SMA<br>(DO-214AC) | SS14    | 2000     |

## 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     | 1.0        | A           |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$   | 60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$ | 30         | A           |
| Junction Temperature                 | $T_J$       |                                                 | -55~+125   | $^{\circ}C$ |
| Storage Temperature                  | $T_{STG}$   |                                                 | -55 ~ +150 | $^{\circ}C$ |

## Electrical Characteristics( $T_a=25^{\circ}C$ unless otherwise specified)

| Item                        | Symbol           | Test Condition                | Limit | Unit          |
|-----------------------------|------------------|-------------------------------|-------|---------------|
| Peak Forward Voltage        | $V_F$            | $I_F=1.0A$                    | 0.55  | V             |
| Peak Reverse Current        | $I_{RRM1}$       | $V_{RM}=V_{RRM}$              | 0.5   | mA            |
|                             | $I_{RRM2}$       |                               | 10    |               |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | Between junction and ambient  | 65    | $^{\circ}C/W$ |
|                             | $R_{\theta J-L}$ | Between junction and terminal | 20    |               |

### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



## Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

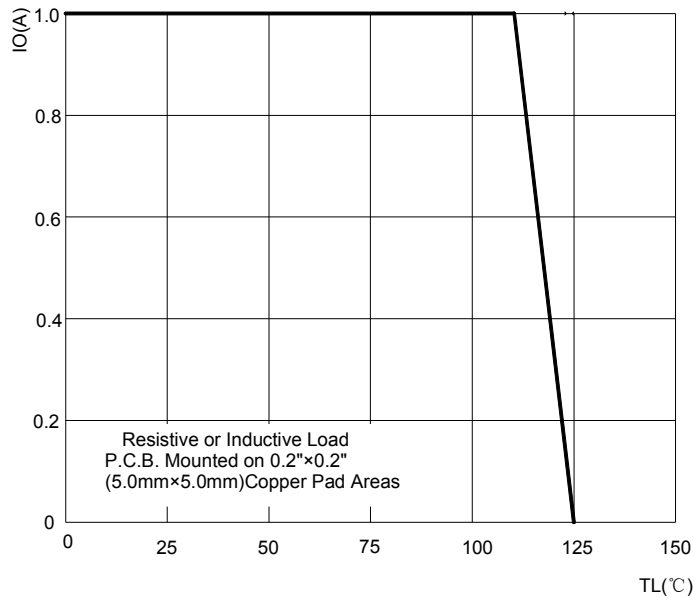


FIG2: Surge Forward Current Capability

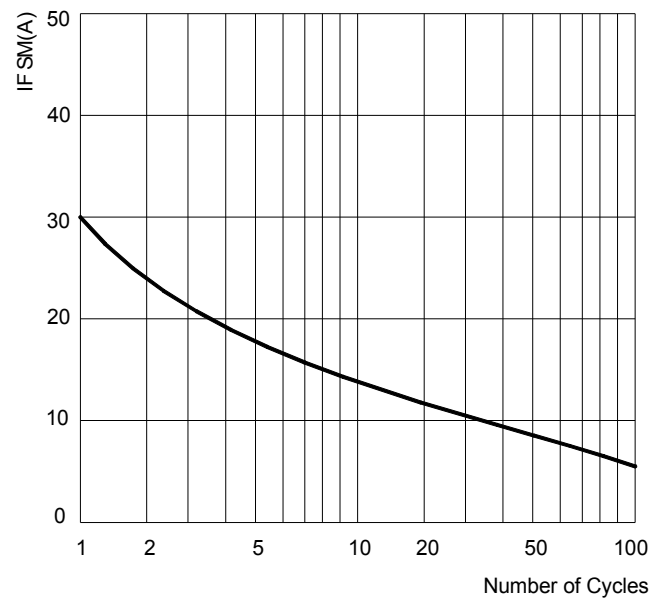


FIG.3: TYPICAL FORWARD CHARACTERISTICS

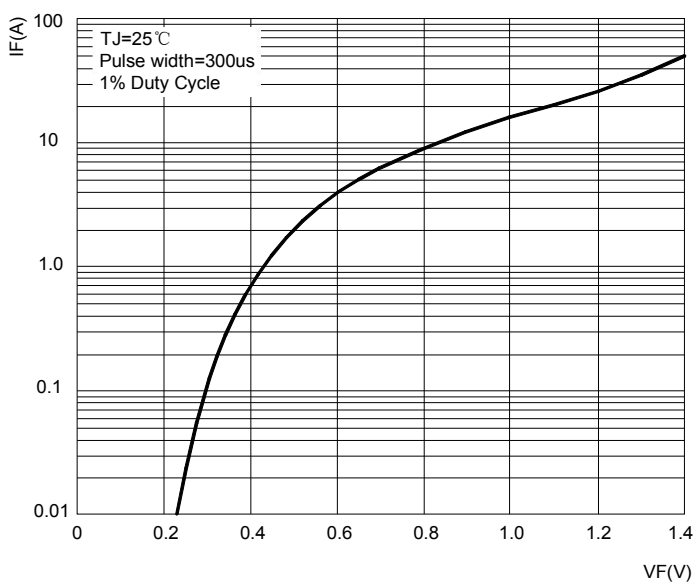
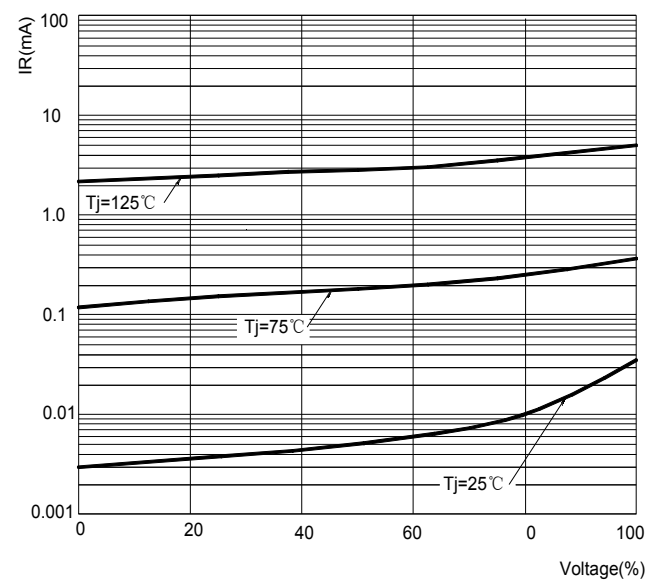
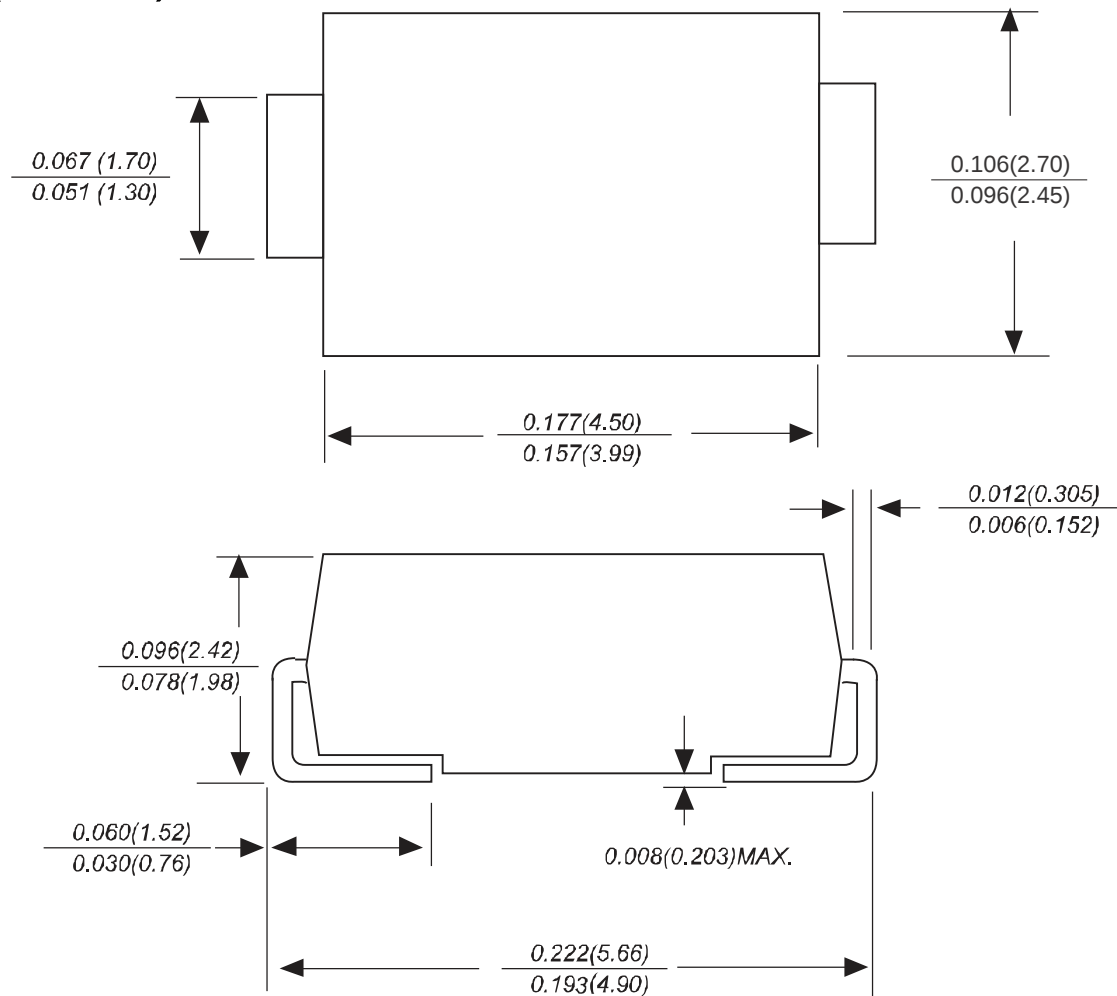


FIG.4: TYPICAL REVERSE CHARACTERISTICS





**Package Outline Dimensions**  
**SMA(DO-214AC)**



*Dimensions in inches and (millimeters)*



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