



## Features

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

## Package Marking and Ordering Information

| Product ID | Pack              | Marking | Qty(PCS) |
|------------|-------------------|---------|----------|
| HUS1ME361T | SMA<br>(DO-214AC) | US1M    | 2000     |



SMA  
(DO-214AC)



## Maximum Ratings (Ta=25°C unless otherwise noted)

| Item                                             | Symbol         | Unit        | Test Conditions                                         | US1M       |
|--------------------------------------------------|----------------|-------------|---------------------------------------------------------|------------|
| Repetitive Peak Reverse Voltage                  | $V_{RRM}$      | V           |                                                         | 1000       |
| Maximum RMS Voltage                              | $V_{RMS}$      | V           |                                                         | 700        |
| Average Forward Current                          | $I_{F(AV)}$    | A           | 60Hz Half-sine wave, Resistance load, $T_L=75^{\circ}C$ | 1.0        |
| Surge(Non-repetitive)Forward Current             | $I_{FSM}$      | A           | 60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$         | 30         |
| Operation Junction and Storage Temperature Range | $T_J, T_{STG}$ | $^{\circ}C$ |                                                         | -55 ~ +150 |

## Electrical Characteristics (Ta=25°C unless otherwise specified)

| Item                          | Symbol            | Unit | Test Condition                                                   |                      | US1M |
|-------------------------------|-------------------|------|------------------------------------------------------------------|----------------------|------|
| Peak Forward Voltage          | V <sub>F</sub>    | V    | I <sub>F</sub> =1.0A                                             |                      | 1.7  |
| Maximum reverse recovery time | t <sub>rr</sub>   | ns   | I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>rr</sub> =0.25A |                      | 75   |
| Peak Reverse Current          | I <sub>RRM1</sub> | μA   | V <sub>RM</sub> =V <sub>RRM</sub>                                | T <sub>a</sub> =25℃  | 5    |
|                               | I <sub>RRM2</sub> |      |                                                                  | T <sub>a</sub> =125℃ | 50   |
| Thermal Resistance(Typical)   | R <sub>θJ-A</sub> | ℃/ W | Between junction and ambient                                     |                      | 55   |
|                               | R <sub>θJ-L</sub> |      | Between junction and terminal                                    |                      | 25   |

## 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

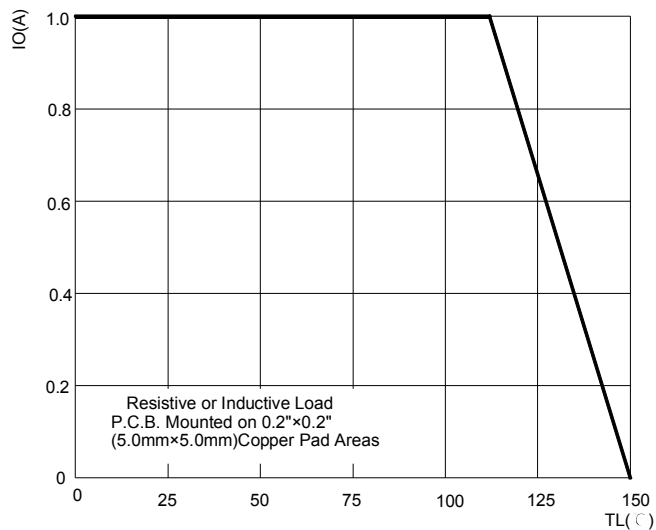


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

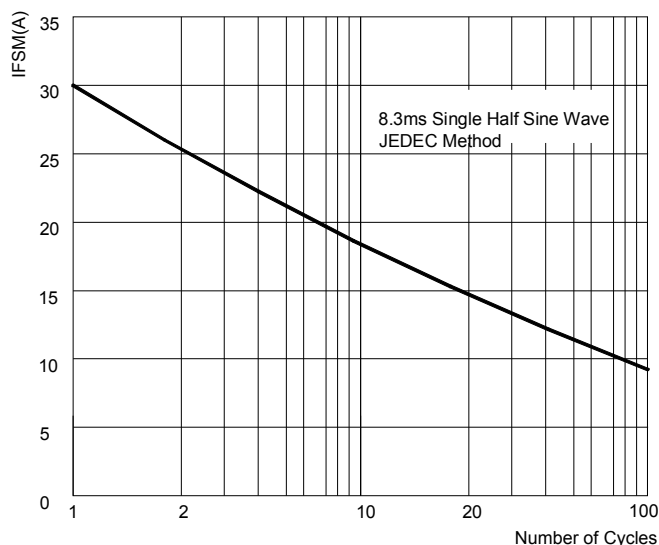


FIG.3: TYPICAL FORWARD CHARACTERISTICS

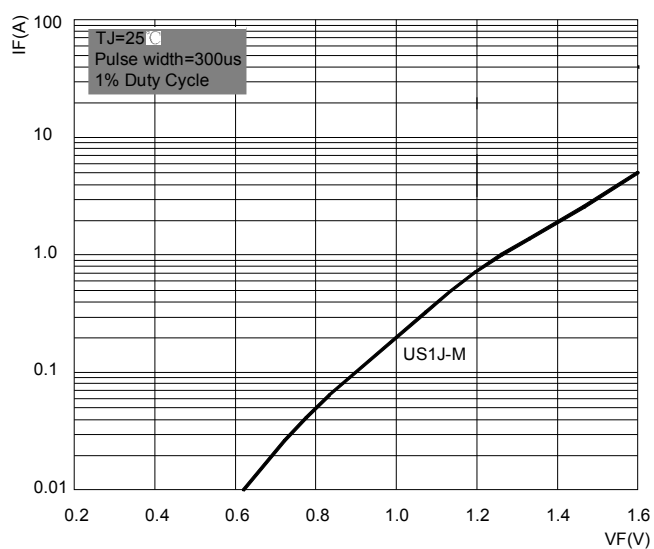


FIG.4: TYPICAL REVERSE CHARACTERISTICS

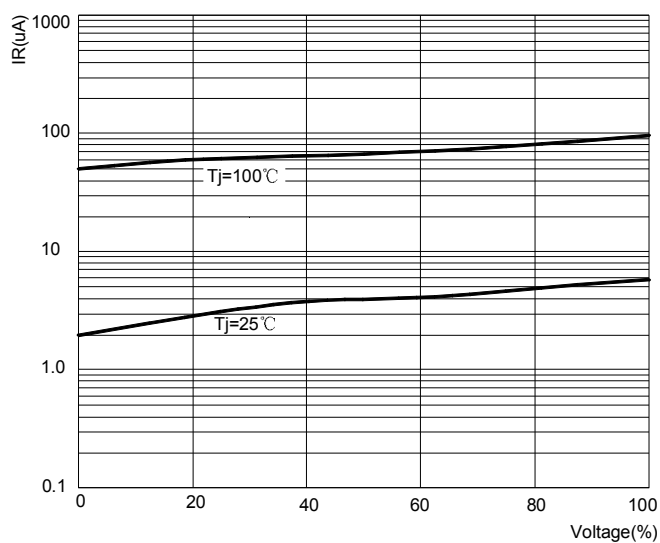
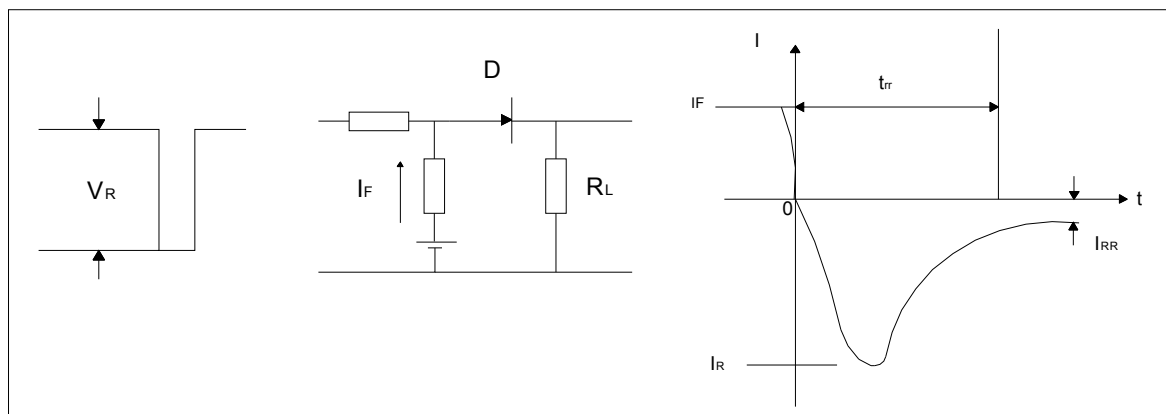
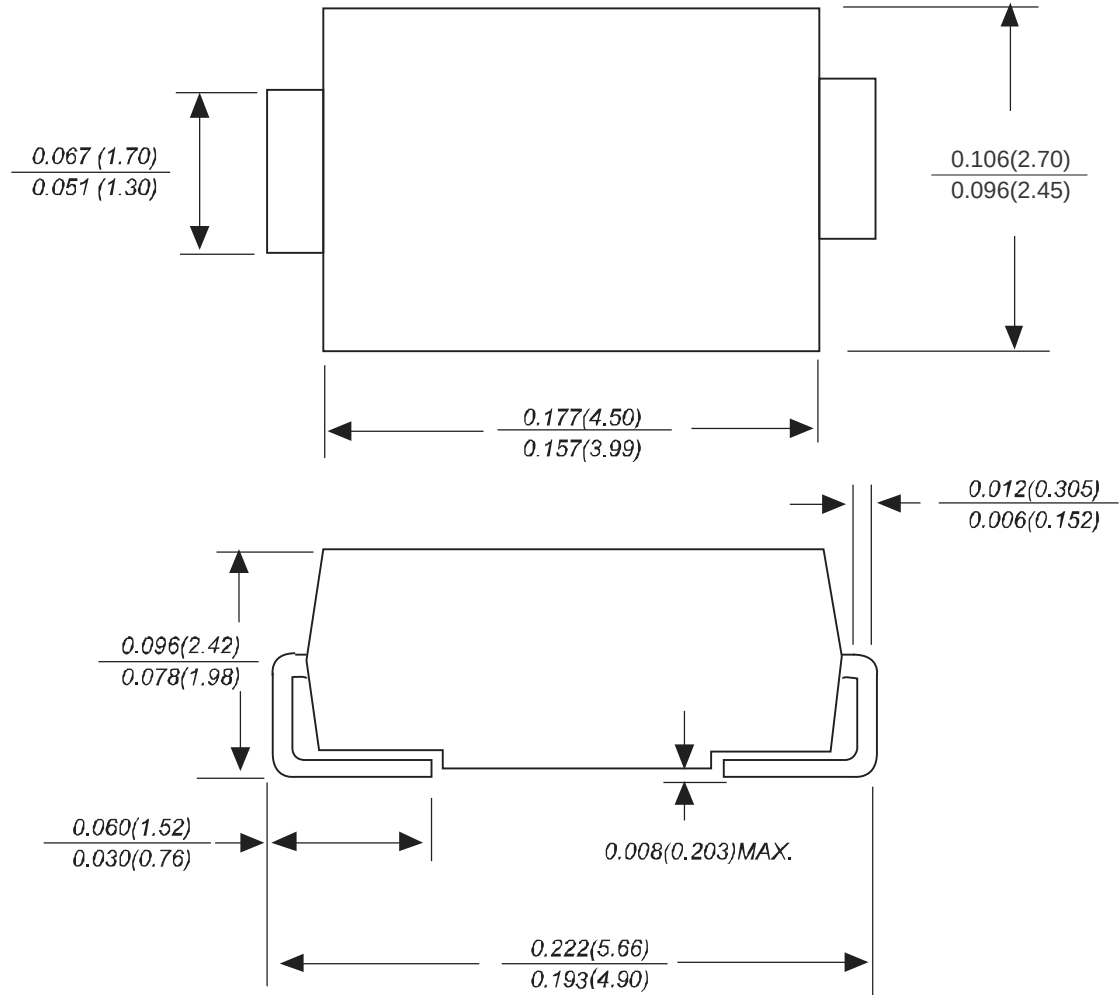


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





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



*Dimensions in inches and (millimeters)*



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