



SANYO Semiconductors

# DATA SHEET

An ON Semiconductor Company

## 1SV267 — Silicon Epitaxial Type PIN Diode for VHF, UHF, AGC Applications

### Features

- Series connection of 2 elements in a very small sized package facilitates high-density mounting and permits 1SV267-applied equipment to be made smaller
- Small interterminal capacitance (C=0.23pF typ)
- Small forward series resistance (rs=2.5Ω typ)

### Specifications

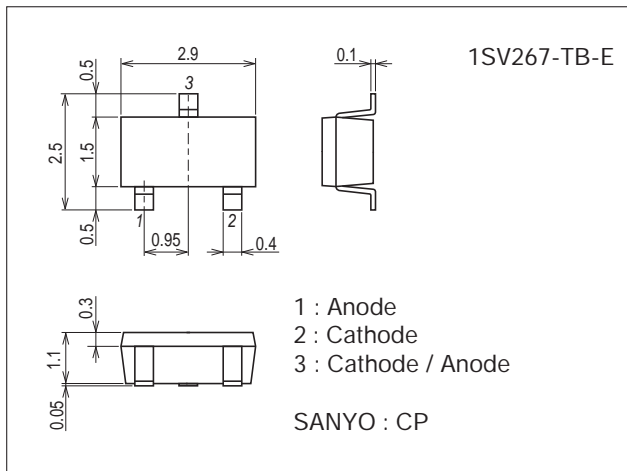
Absolute Maximum Ratings at Ta=25°C

| Parameter                   | Symbol           | Conditions | Ratings     | Unit |
|-----------------------------|------------------|------------|-------------|------|
| Reverse Voltage             | V <sub>R</sub>   |            | 50          | V    |
| Forward Current             | I <sub>F</sub>   |            | 50          | mA   |
| Allowable Power Dissipation | P                |            | 150         | mW   |
| Junction Temperature        | T <sub>j</sub>   |            | 125         | °C   |
| Storage Temperature         | T <sub>stg</sub> |            | -55 to +125 | °C   |

### Package Dimensions

unit : mm (typ)

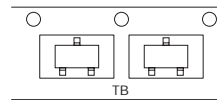
7013A-008



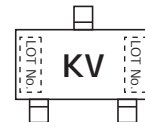
### Product & Package Information

- Package : CP
- JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB
- Minimum Packing Quantity : 3,000 pcs./reel

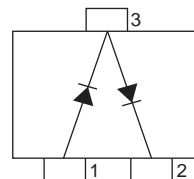
### Packing Type: TB



### Marking



### Electrical Connection



# 1SV267

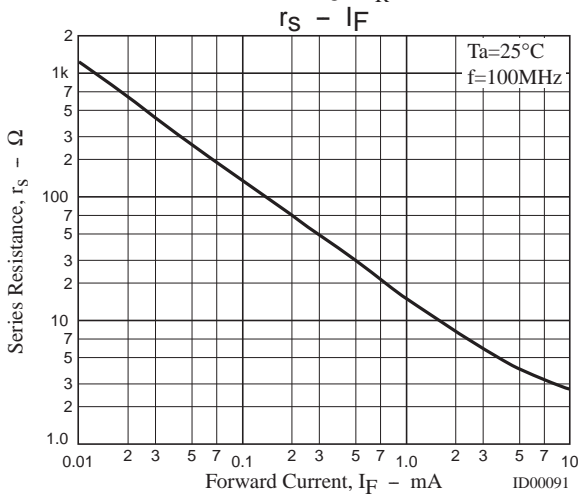
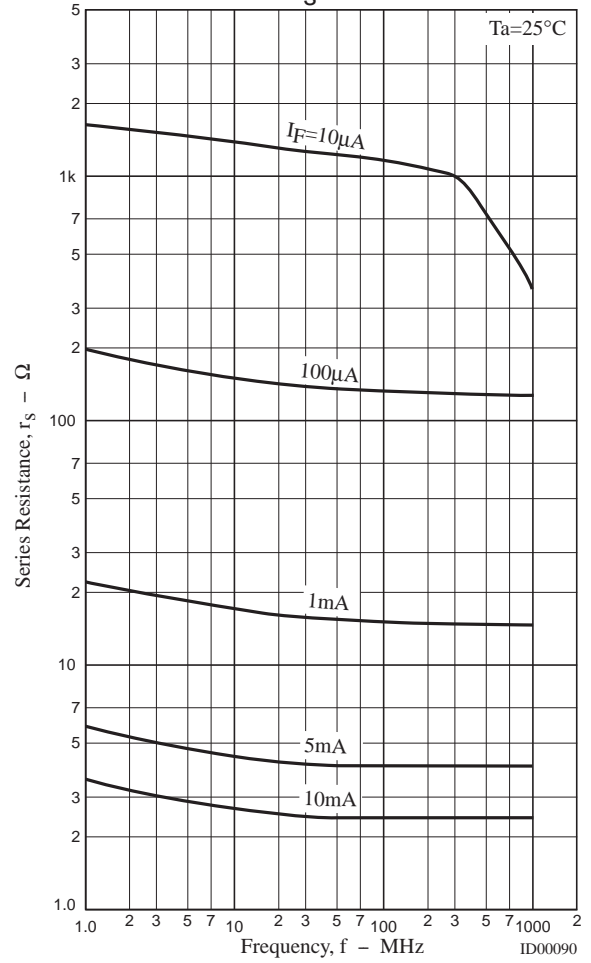
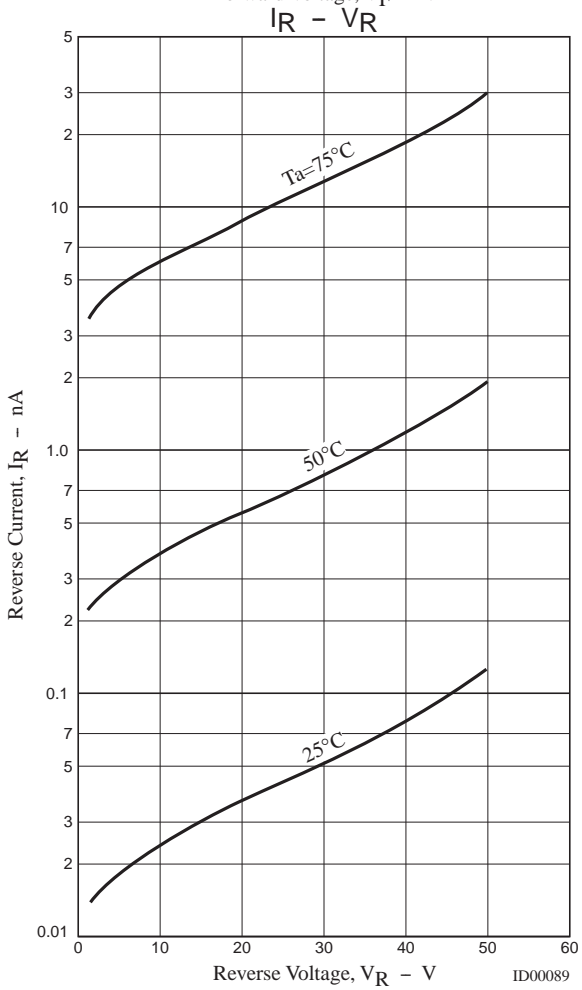
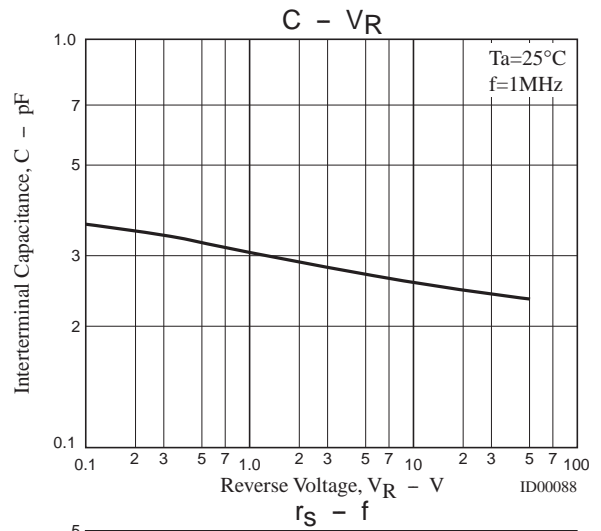
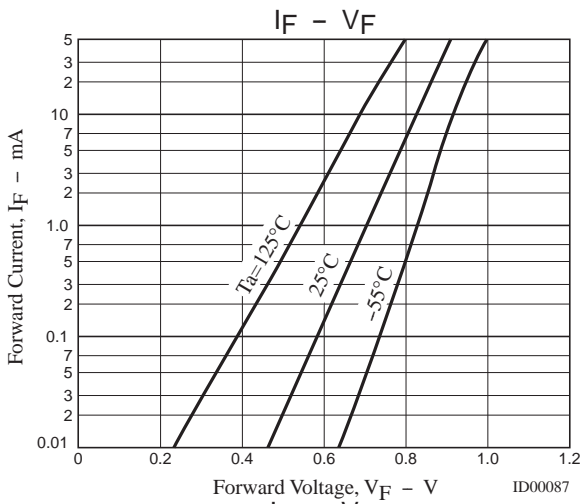
## Electrical Characteristics at Ta=25°C

| Parameter                 | Symbol         | Conditions                     | Ratings |      |     | Unit |
|---------------------------|----------------|--------------------------------|---------|------|-----|------|
|                           |                |                                | min     | typ  | max |      |
| Reverse Voltage           | V <sub>R</sub> | I <sub>R</sub> =10μA           | 50      |      |     | V    |
| Reverse Current           | I <sub>R</sub> | V <sub>R</sub> =50V            |         |      | 0.1 | μA   |
| Forward Voltage           | V <sub>F</sub> | I <sub>F</sub> =50mA           |         | 0.91 |     | V    |
| Interterminal Capacitance | C              | V <sub>R</sub> =50V, f=1MHz    |         | 0.23 |     | pF   |
| Series Resistance         | r <sub>s</sub> | I <sub>F</sub> =5mA, f=100MHz  |         | 4.0  |     | Ω    |
|                           |                | I <sub>F</sub> =10mA, f=100MHz |         | 2.5  |     | Ω    |

Note : The specifications shown above are for each individual diode.

## Ordering Information

| Device      | Package | Shipping       | memo    |
|-------------|---------|----------------|---------|
| 1SV267-TB-E | CP      | 3,000pcs./reel | Pb Free |



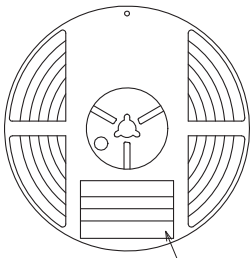
Embossed Taping Specification

1SV267-TB-E

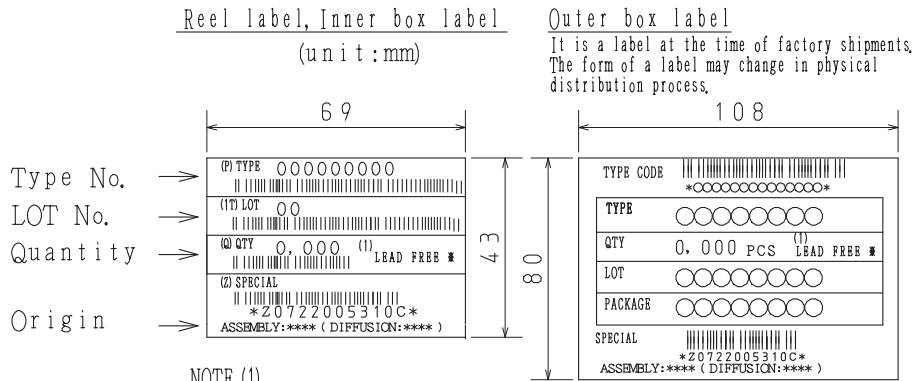
1. Packing Format

| Package Name | Carrier Tape Type | Maximum Number of devices contained (pcs) |           |           | Packing format  |  |
|--------------|-------------------|---|-----------|-----------|---|--|
|              |                   | Reel                                      | Inner box | Outer box | Inner BOX (C-1)   | Outer BOX (A-7)  |
| CP           | CP                | 3,000                                     | 15,000    | 90,000    | 5 reels contained<br>Dimensions:mm (external)<br>183×72×185 | 6 inner boxes contained<br>Dimensions:mm (external)<br>440×195×210 |

Packing method



Reel label



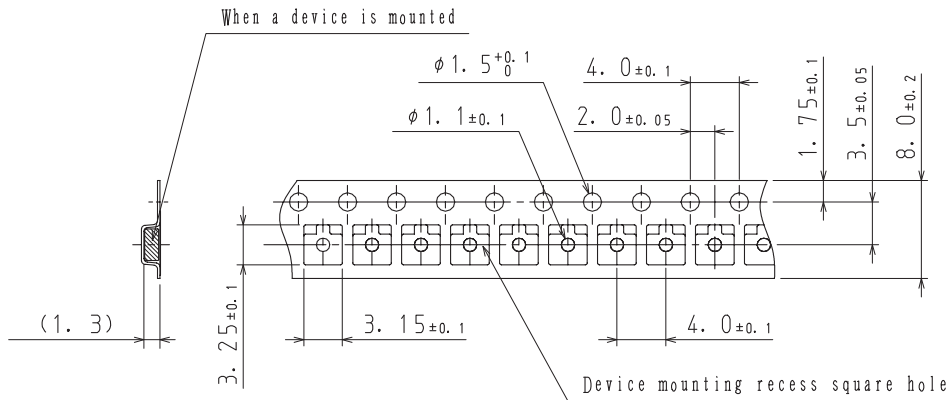
NOTE (1)

The LEAD FREE \* description shows that the surface treatment of the terminal is lead free.

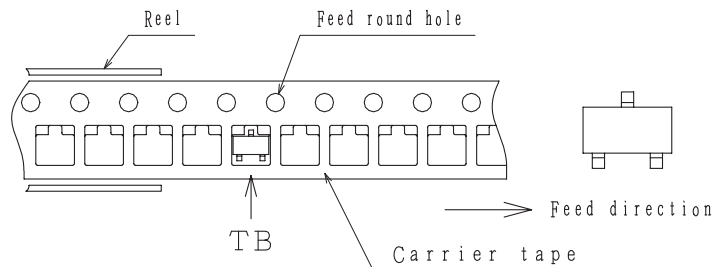
| Label       | JEITA Phase    |
|-------------|----------------|
| LEAD FREE 3 | JEITA Phase 3A |
| LEAD FREE 4 | JEITA Phase 3  |

2. Taping configuration

2-1. Carrier tape size (unit:mm)



2-2. Device placement direction

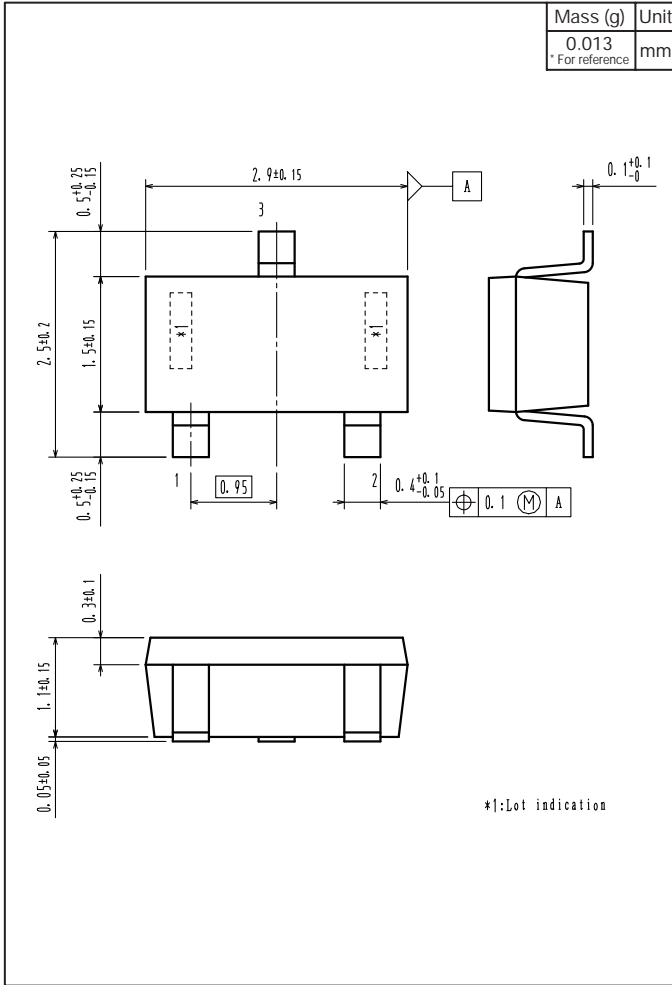


Those with one electrode terminal on the feed hole side.....TB

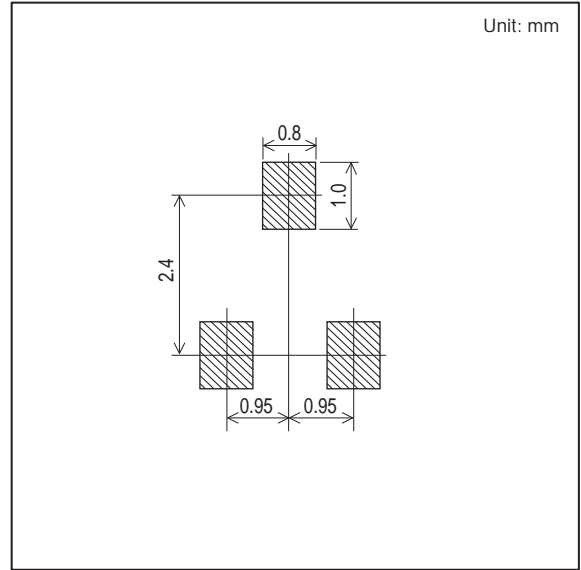
# 1SV267

## Outline Drawing

1SV267-TB-E



## Land Pattern Example



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