



# 1SV234

Silicon Epitaxial Type

## PIN Diode for VHF, UHF, AGC Applications

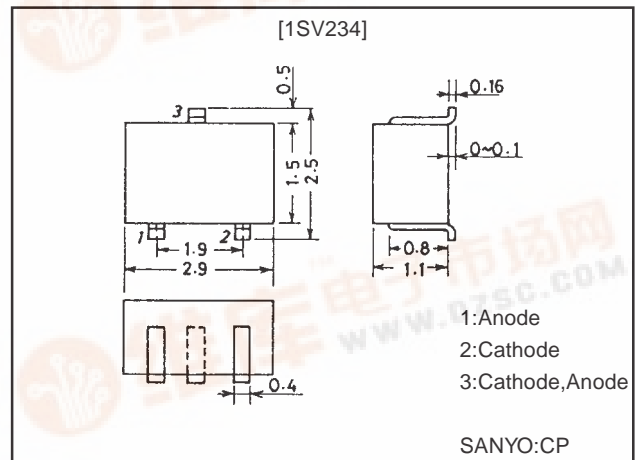
### Features

- Series connection of 2 elements in an ultrasmall package facilitates high-density mounting and permits 1SV234-applied equipment to be made smaller.
- Small interterminal capacitance ( $C=0.23\text{pF typ}$ ).
- Small forward series resistance ( $r_s=5\Omega \text{ typ}$ ).

### Package Dimensions

unit:mm

1147A



### Specifications

#### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

| Parameter                   | Symbol    | Conditions | Ratings     | Unit             |
|-----------------------------|-----------|------------|-------------|------------------|
| Reverse Voltage             | $V_R$     |            | 50          | V                |
| Forward Current             | $I_F$     |            | 50          | mA               |
| Allowable Power Dissipation | P         |            | 150         | mW               |
| Junction Temperature        | $T_j$     |            | 125         | $^\circ\text{C}$ |
| Storage Temperature         | $T_{stg}$ |            | -55 to +125 | $^\circ\text{C}$ |

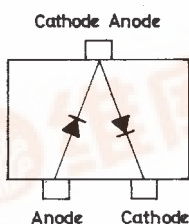
#### Electrical Characteristics at $T_a = 25^\circ\text{C}$

| Parameter                 | Symbol | Conditions                         | Ratings |      |     | Unit          |
|---------------------------|--------|------------------------------------|---------|------|-----|---------------|
|                           |        |                                    | min     | typ  | max |               |
| Reverse Voltage           | $V_R$  | $I_R=10\mu\text{A}$                | 50      |      |     | V             |
| Reverse Current           | $I_R$  | $V_R=50\text{V}$                   |         |      | 0.1 | $\mu\text{A}$ |
| Forward Voltage           | $V_F$  | $I_F=50\text{mA}$                  |         | 0.95 |     | V             |
| Interterminal Capacitance | C      | $V_R=50\text{V}, f=1\text{MHz}$    |         | 0.23 |     | pF            |
| Series Resistance         | $r_s$  | $I_F=10\text{mA}, f=100\text{MHz}$ |         | 5    |     | $\Omega$      |

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

- Marking:CV

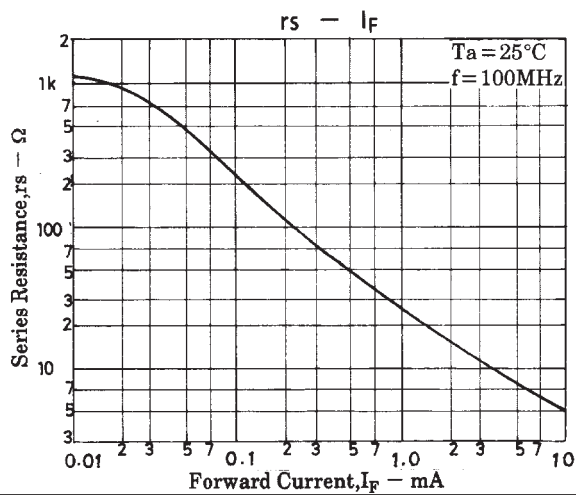
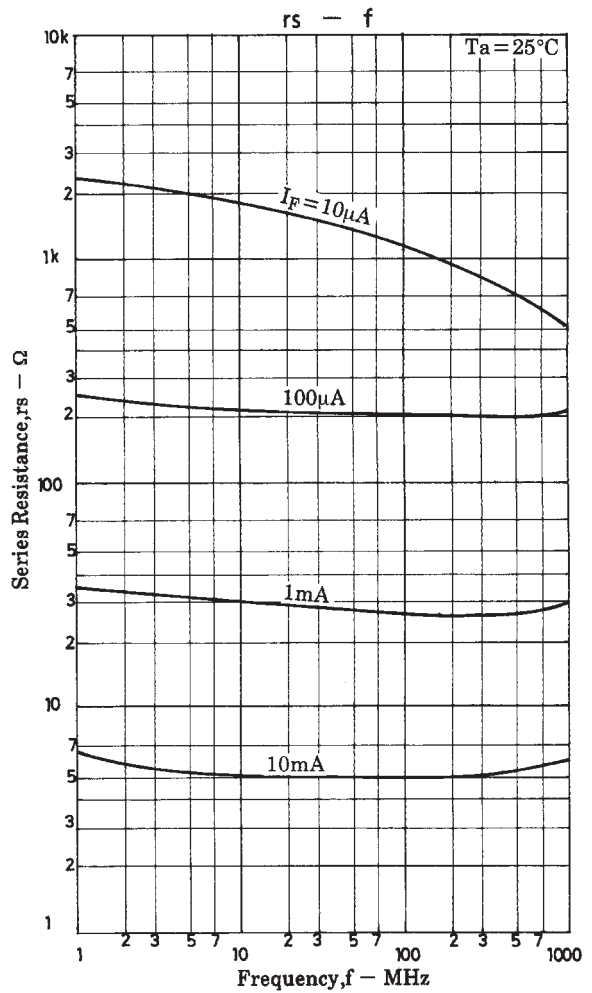
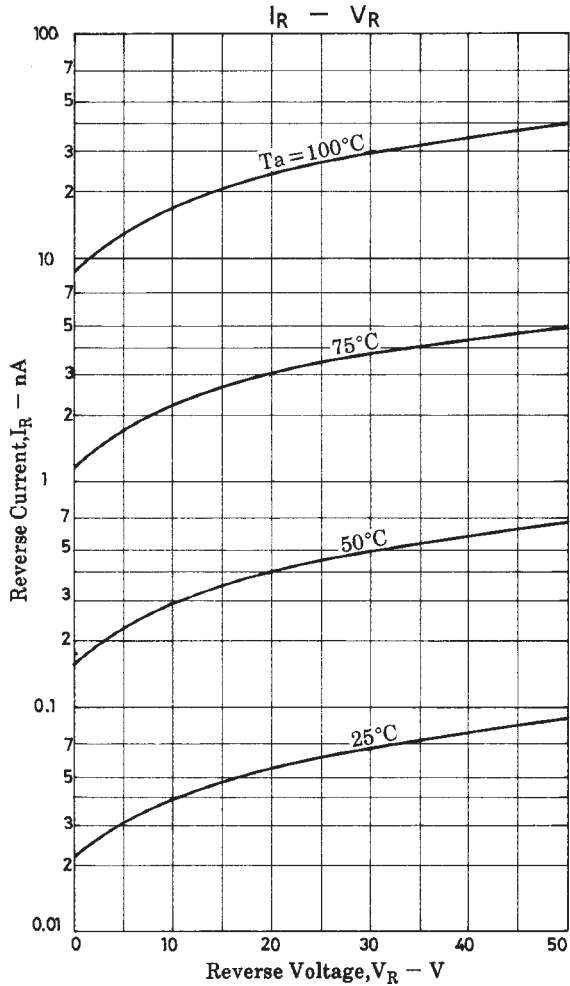
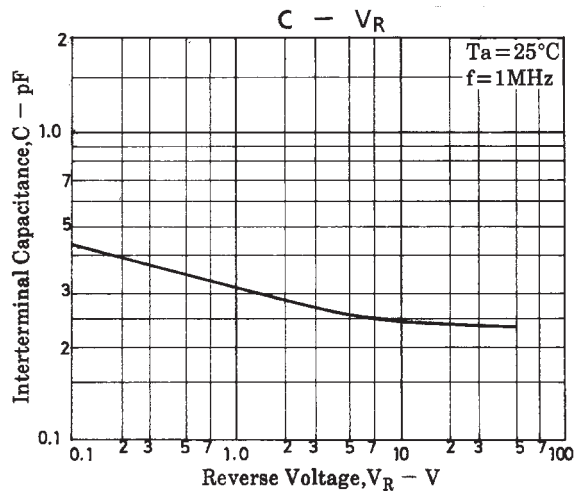
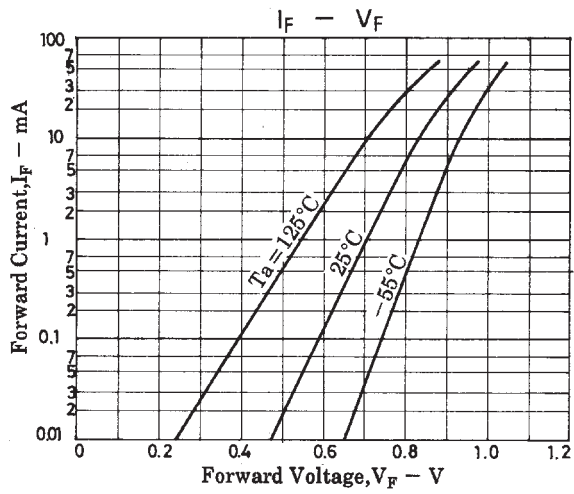
### Electrical Connection



(Top view)



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