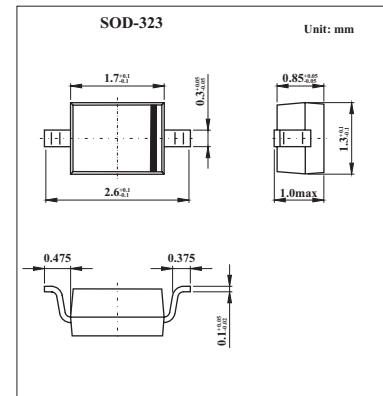


## Silicon Epitaxial Planar Diode

## 1SV239

## ■ Features

- Ultra Low Series Resistance:  $r_s = 0.44 \Omega$  (Typ.)
- Useful for small size Set

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

| Parameter                 | Symbol    | Value       | Unit             |
|---------------------------|-----------|-------------|------------------|
| Reverse Voltage           | $V_R$     | 15          | V                |
| Junction Temperature      | $T_j$     | 125         | $^\circ\text{C}$ |
| Storage Temperature Range | $T_{stg}$ | -55 to +125 | $^\circ\text{C}$ |

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

| Parameter         | Symbol           | Conditions                             | Min | Typ  | Max | Unit     |
|-------------------|------------------|--|-----|------|-----|----------|
| Reverse Voltage   | $V_R$            | $I_R = 1 \mu\text{A}$                  | 15  |      |     | V        |
| Reverse Current   | $I_R$            | $V_R = 15 \text{V}$                    |     |      | 3   | nA       |
| Capacitance       | $C_{2V}$         | $f = 1 \text{MHz}; V_R = 2 \text{V}$   | 3.8 | 4.25 | 4.7 | pF       |
|                   | $C_{10V}$        | $f = 1 \text{MHz}; V_R = 10 \text{V}$  | 1.5 | 1.75 | 2.0 |          |
| Capacitance Ratio | $C_{2V}/C_{10V}$ |  | 2   | 2.4  |     |          |
| Series Resistance | $r_s$            | $V_R = 1 \text{V}, f = 470 \text{MHz}$ |     | 0.44 | 0.6 | $\Omega$ |

## ■ Marking

|         |    |
|---------|----|
| Marking | TC |
|---------|----|