

TOSHIBA DIODE SILICON EPITAXIAL SCHOTTKY BARRIER TYPE

1SS295

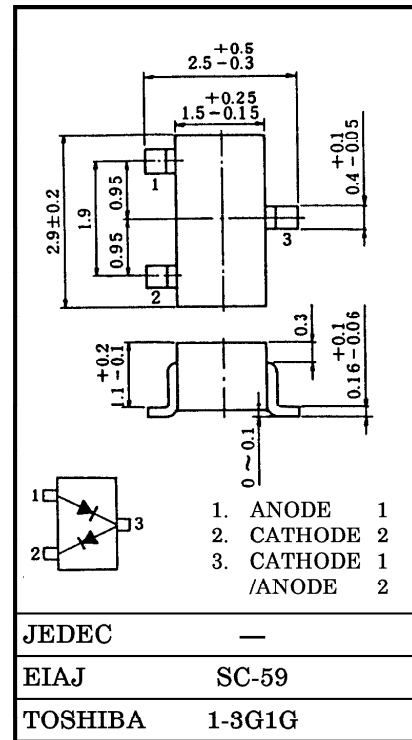
UHF BAND MIXER APPLICATIONS.

Unit in mm

- Small Package
- Small Delta Forward Voltage : $\Delta V_F = 10\text{mV (Max.)}$
- Small Delta Total Capacitance : $\Delta C_T = 0.1\text{pF (Max.)}$

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------|-----------|---------|------------------|
| Reverse Voltage | V_R | 4 | V |
| Forward Current | I_F | 30 | mA |
| Junction Temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~125 | $^\circ\text{C}$ |

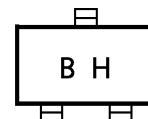


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|-------------------------|--------------|---|------|------|------|---------------|
| Forward Voltage | V_F | $I_F = 2\text{mA}$ | — | 0.25 | 0.32 | V |
| Forward Current | I_F | $V_F = 0.5\text{V}$ | 30 | — | — | mA |
| Reverse Current | I_R | $V_R = 0.5\text{V}$ | — | — | 25 | μA |
| Total Capacitance | C_T | $V_R = 0.2\text{V}, f = 1\text{MHz}$ | — | 0.6 | 0.9 | pF |
| Delta Forward Voltage | ΔV_F | $I_F = 2\text{mA}$ (Note) | — | — | 10 | mV |
| Delta Total Capacitance | ΔC_T | $V_R = 0.2\text{V}, f = 100\text{MHz}$ (Note) | — | — | 0.1 | pF |

(Note) : Difference between 2 Devices 2 Devices in 1 package.

Marking



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