

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

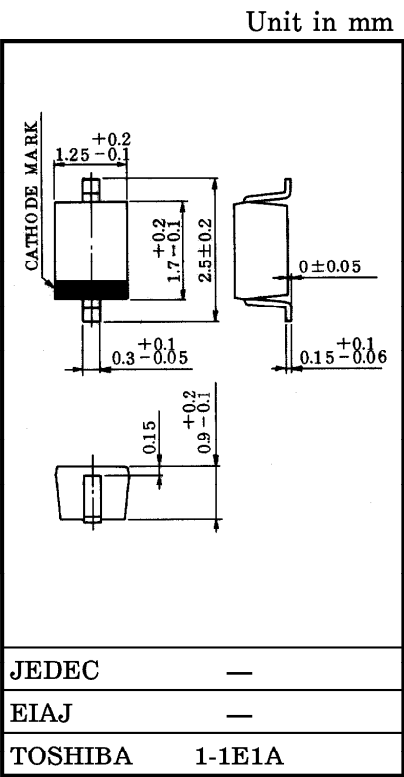
1SS314

VHF TUNER BAND SWITCH APPLICATIONS.

- Small Package.
- Small Total Capacitance :  $C_T=1.2\text{pF}$  (Max.)
- Low Series Resistance :  $r_s=0.5\Omega$  (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC            | SYMBOL    | RATING  | UNIT |
|---------------------------|-----------|---------|------|
| Reverse Voltage           | $V_R$     | 30      | V    |
| Forward Current           | $I_F$     | 100     | mA   |
| Junction Temperature      | $T_j$     | 125     | °C   |
| Storage Temperature Range | $T_{stg}$ | -55~125 | °C   |



Weight : 0.004g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC    | SYMBOL | TEST CONDITION                       | MIN. | TYP. | MAX. | UNIT          |
|-------------------|--------|--------------------------------------|------|------|------|---------------|
| Forward Voltage   | $V_F$  | $I_F=2\text{mA}$                     | —    | —    | 0.85 | V             |
| Reverse Current   | $I_R$  | $V_R=15\text{V}$                     | —    | —    | 0.1  | $\mu\text{A}$ |
| Reverse Voltage   | $V_R$  | $I_R=1\mu\text{A}$                   | 30   | —    | —    | V             |
| Total Capacitance | $C_T$  | $V_R=6\text{V}$ , $f=1\text{MHz}$    | —    | 0.7  | 1.2  | pF            |
| Series Resistance | $r_s$  | $I_F=2\text{mA}$ , $f=100\text{MHz}$ | —    | 0.5  | 0.9  | $\Omega$      |

Marking



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