

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

JDH3D01FV

○ For wave detection

- Small package

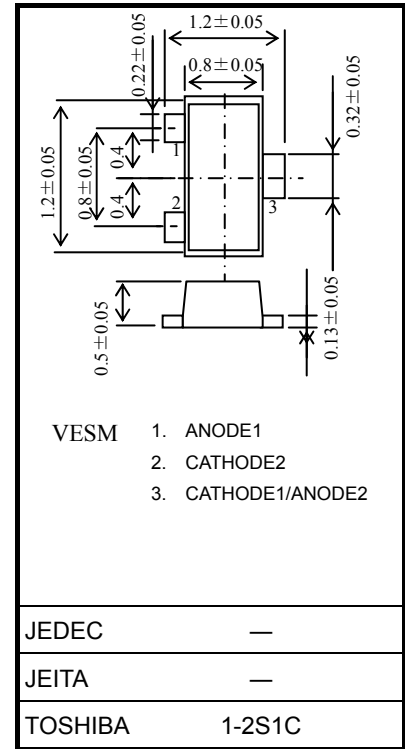
Unit: mm

Absolute Maximum Ratings (Ta = 25°C)

| Characteristic | Symbol | Rating | Unit |
|---------------------------|-----------|------------|------|
| Reverse voltage | V_R | 4 | V |
| Forward current | I_F | 25 | mA |
| Junction temperature | T_j | 125 | °C |
| Storage temperature range | T_{stg} | -55 to 125 | °C |

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



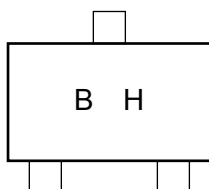
Weight:0.0015g(typ.)

Electrical Characteristics (Ta = 25°C)

| Characteristic | Symbol | Test Condition | Min | Typ. | Max | Unit |
|-----------------|--------|--|-----|------|-----|------|
| Forward voltage | V_F | $I_F = 2 \text{ mA}$ | — | 0.25 | — | V |
| Forward current | I_F | $V_F = 0.5 \text{ V}$ | 25 | — | — | mA |
| Reverse current | I_R | $V_R = 0.5 \text{ V}$ | — | — | 25 | uA |
| Capacitance | C_T | $V_R = 0.2 \text{ V}, f = 1 \text{ MHz}$ | — | 0.6 | — | pF |

Note: Signal level when capacitance is measured: $V_{sig} = 20 \text{ mV}_{rms}$

Marking

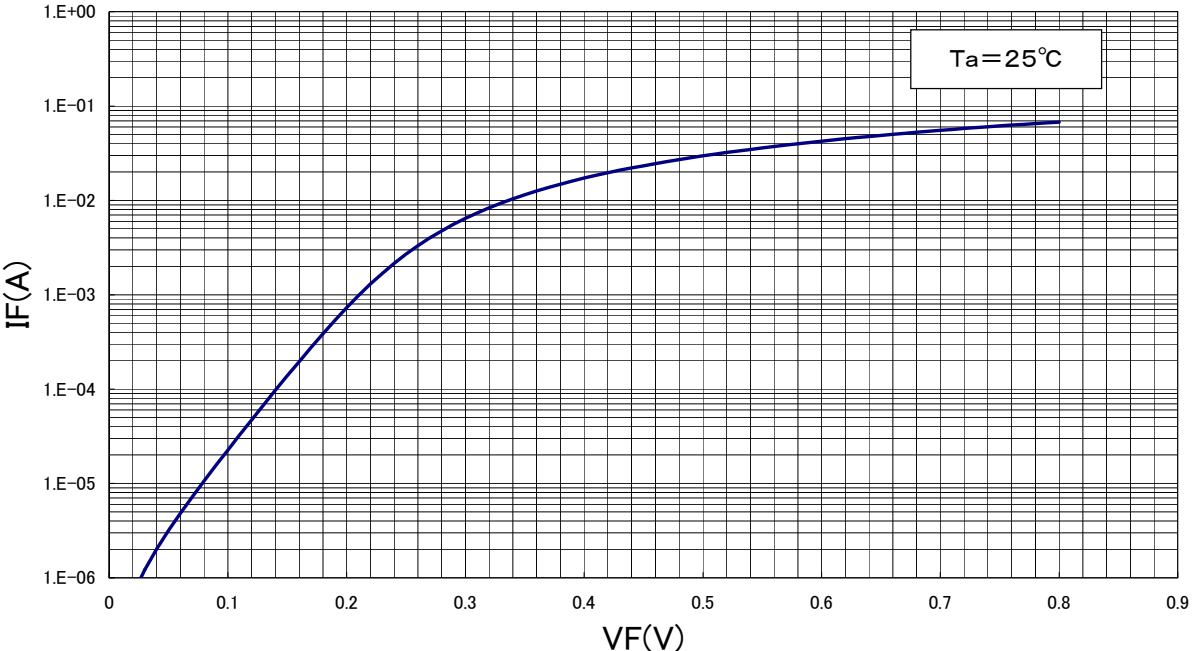


Caution

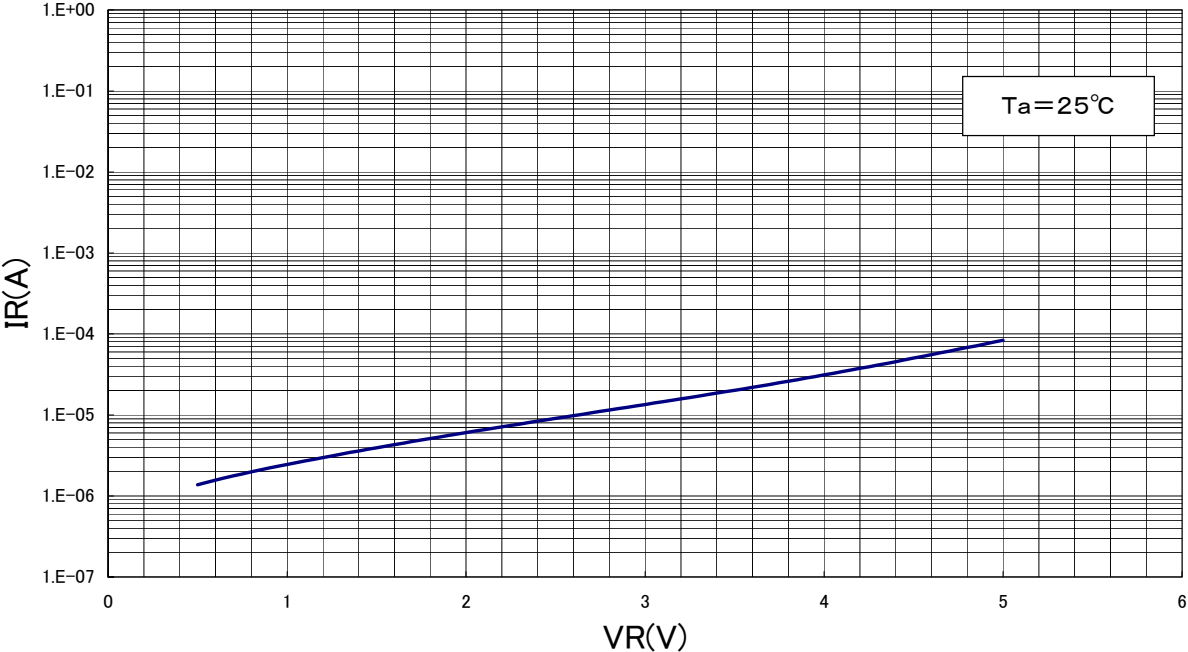
This device is sensitive to electrostatic discharge. Operators should wear antistatic clothing, and containers and other objects that come into direct contact with the product should be made of antistatic materials.

Start of commercial production
2004-08

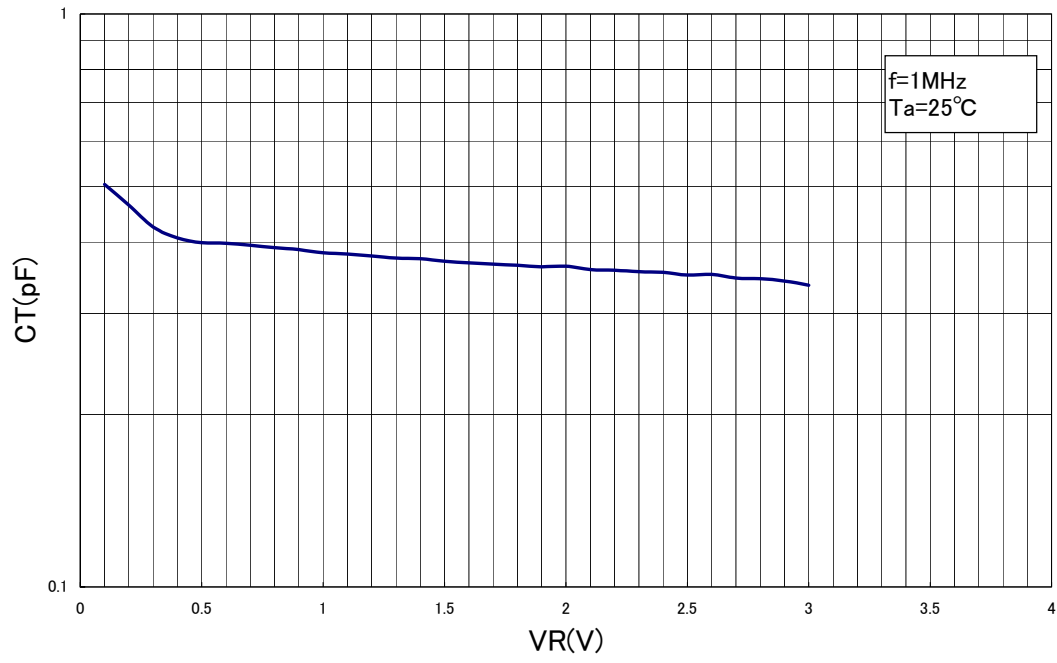
IF-VF



IR-VR



CT-VR



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