

Product for Use Only as Protection against Electrostatic Discharge (ESD).

* This product is for protection against electrostatic discharge (ESD) only and is not intended for any other usage, including without limitation, the constant voltage diode application.

- 2terminal ultra small package suitable for mounting on small space.

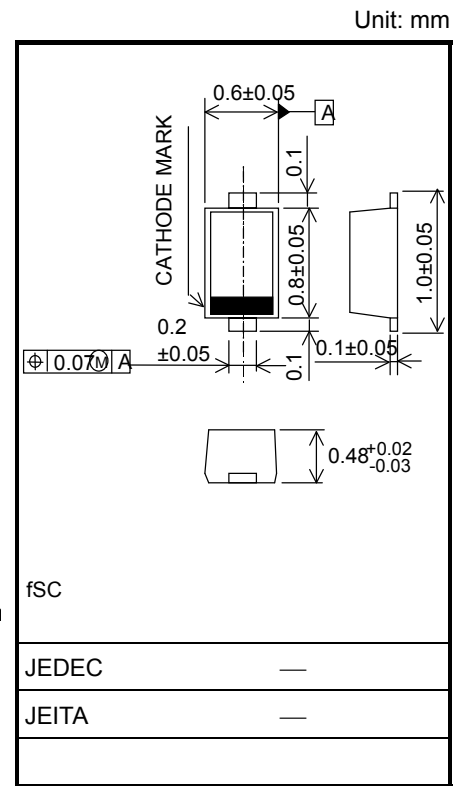
Absolute Maximum Ratings (Ta = 25°C)

| Characteristic | Symbol | Rating | Unit |
|---------------------------|------------------|---------|------|
| Power dissipation | P | 150* | mW |
| Junction temperature | T _j | 150 | °C |
| Storage temperature range | T _{stg} | -55~150 | °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.

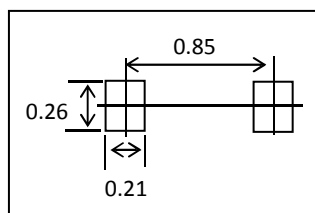
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

*: Mounted on a glass epoxy circuit board of 20 × 20 mm, pad dimension of 4 × 4 mm.



Weight: 0.0006 g (typ.)

Pad Dimension(Reference) Unit : mm



Electrical Characteristics (Ta = 25°C)

| Characteristic | Symbol | Test Condition | Min | Typ. | Max | Unit |
|---|----------------|---------------------------------|-----|------|-----|------|
| Zener voltage | V _Z | I _Z = 5mA | 7.7 | 8.2 | 8.7 | V |
| Dynamic impedance | Z _Z | I _Z = 5mA | — | — | 30 | Ω |
| Reverse current | I _R | V _R = 6.5V | — | — | 0.5 | μA |
| Total capacitance (between Cathode and Anode) | C _T | V _R = 0 V, f = 1 MHz | — | 20 | — | pF |

Guaranteed Level of ESD Immunity

| | |
|-------------------------------------|--------------------|
| Test Condition | ESD Immunity Level |
| IEC61000-4-2 (Contact discharge) | ±30kV |

Criterion: No damage to device elements

Equivalent Circuit (Top View)

