

## DF2S16FS

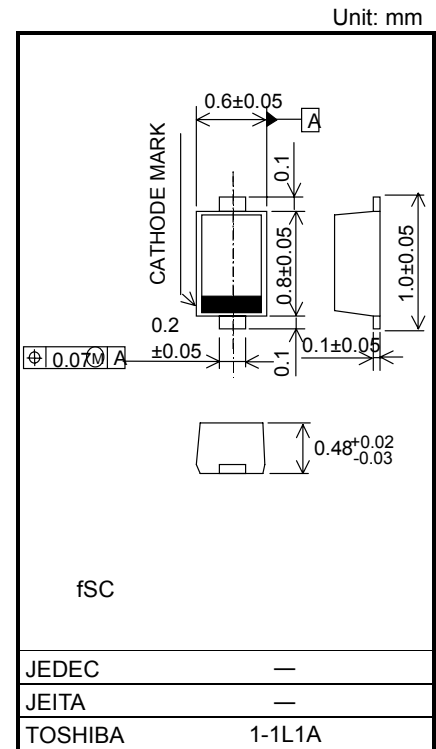
## Diodes for Protecting against ESD

- Two-terminal ultra-small package suitable for mounting on small surfaces.
- Zener voltage corresponds to the E24 series.
- Low total capacitance:  $C_T = 10$  pF (typ.)
- Lead (Pb) - free

Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

| Characteristic            | Symbol    | Rating  | Unit             |
|---------------------------|-----------|---------|------------------|
| Power dissipation         | $P^*$     | 150     | mW               |
| Junction temperature      | $T_j$     | 150     | $^\circ\text{C}$ |
| Storage temperature range | $T_{stg}$ | -55~150 | $^\circ\text{C}$ |

\* Mounted on a glass-epoxy circuit board of  $20 \times 20$  mm,  
pad dimensions of  $4 \times 4$  mm.



Weight: 0.0006 g (typ.)

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

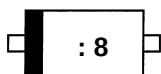
| Characteristic    | Symbol | Test Circuit | Test Condition           | Min  | Typ. | Max  | Unit          |
|-------------------|--------|--------------|--------------------------|------|------|------|---------------|
| Zener voltage     | $V_Z$  | —            | $I_Z = 5$ mA             | 15.3 | 16.0 | 17.1 | V             |
| Dynamic impedance | $Z_Z$  | —            | $I_Z = 5$ mA             | —    | —    | 35   | $\Omega$      |
| Reverse current   | $I_R$  | —            | $V_R = 12$ V             | —    | —    | 0.5  | $\mu\text{A}$ |
| Total capacitance | $C_T$  | —            | $V_R = 0$ V, $f = 1$ MHz | —    | 10   | —    | pF            |

## Guaranteed Level of ESD Immunity

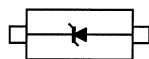
| Test Condition                      | ESD Immunity Level |
|-------------------------------------|--------------------|
| IEC61000-4-2<br>(contact discharge) | $\pm 12$ kV        |

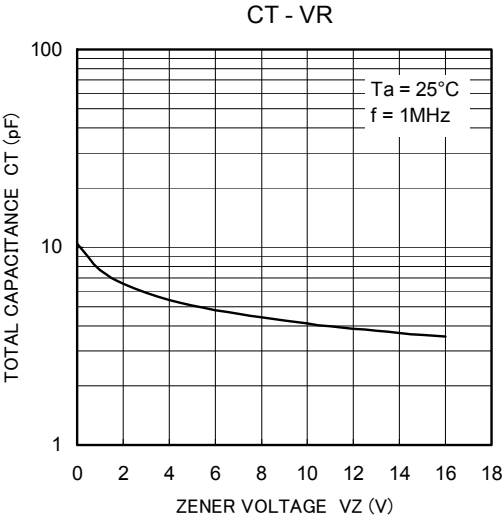
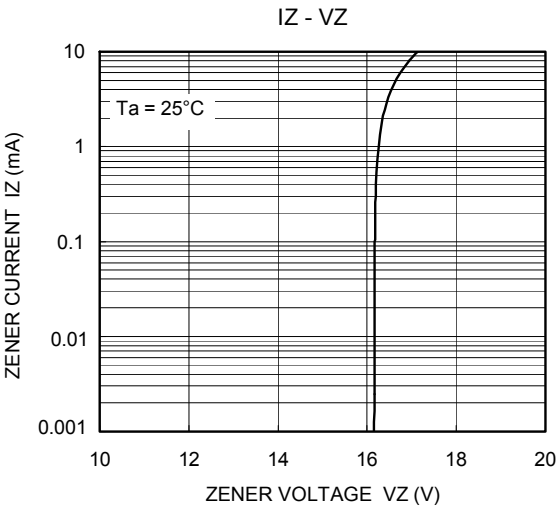
Criterion: No damage to device elements

## Marking



## Equivalent Circuit (Top View)





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