

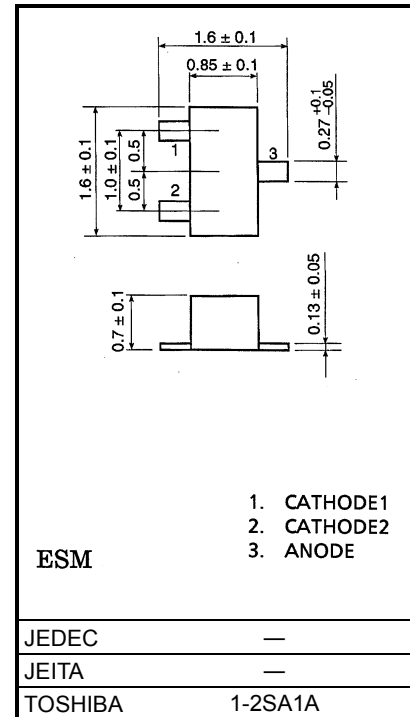
TOSHIBA Diodes for Protecting against ESD Epitaxial Planar Type

# DF3A5.6FE

Diodes for Protecting against ESD

Unit: mm

- The mounting of two devices on an ultra-compact package allows the number of parts and the mounting cost to be reduced.
- The zener voltage corresponds to the E24 Series.



Weight: 0.0023 g (typ.)

### Maximum Ratings (Ta = 25°C)

| Characteristic            | Symbol           | Rating  | Unit |
|---------------------------|------------------|---------|------|
| Power dissipation         | P                | 100     | mW   |
| Junction temperature      | T <sub>j</sub>   | 125     | °C   |
| Storage temperature range | T <sub>stg</sub> | -55~125 | °C   |

### Electrical Characteristics (Ta = 25°C)

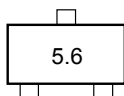
| Characteristic                                   | Symbol         | Test Condition               | Min | Typ. | Max | Unit |
|--|----------------|------------------------------|-----|------|-----|------|
| Zener voltage                                    | V <sub>Z</sub> | I <sub>Z</sub> = 5mA         | 5.3 | 5.6  | 6.0 | V    |
| Dynamic impedance                                | Z <sub>Z</sub> | I <sub>Z</sub> = 5mA         | —   | —    | 40  | Ω    |
| Reverse current                                  | I <sub>R</sub> | V <sub>R</sub> = 2.5V        | —   | —    | 1.0 | μA   |
| Terminal capacitance (between Cathode and Anode) | C <sub>T</sub> | V <sub>R</sub> = 0, f = 1MHz | —   | 65   | —   | pF   |

### Guaranteed Level of ESD Immunity

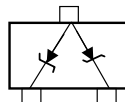
| Test Condition                   | ESD Immunity Level |
|----------------------------------|--------------------|
| IEC61000-4-2 (Contact discharge) | ± 30kV             |

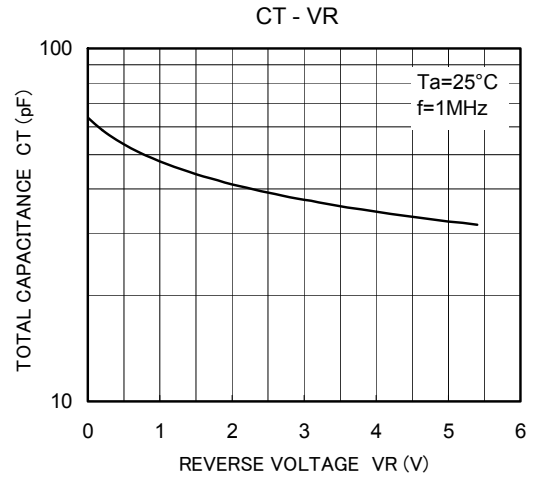
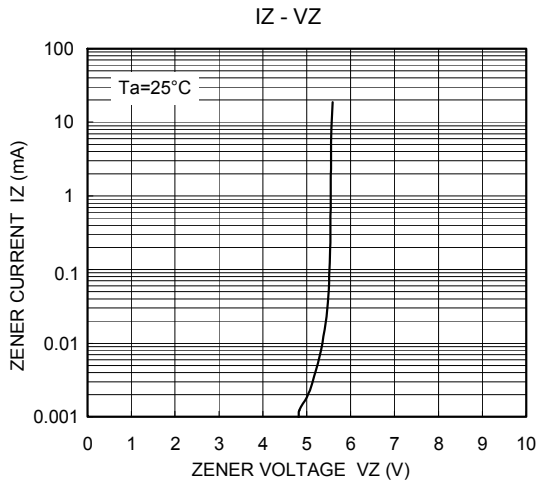
Criterion: No damage to device elements

### Marking



### Equivalent Circuit (top view)





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