

# DF5A6.8LF

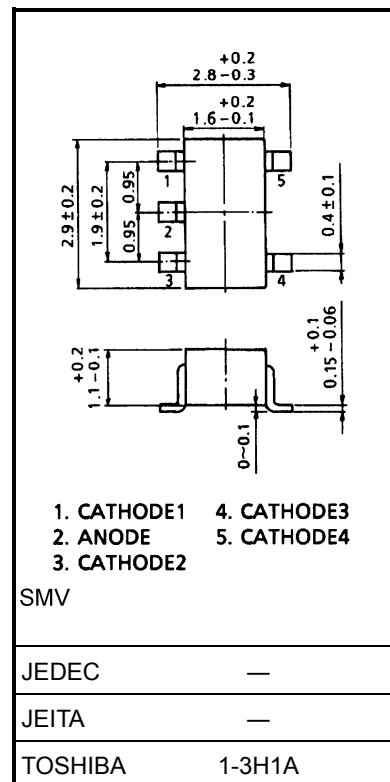
## Diodes for Protecting Against ESD

Unit: mm

- Because four devices are mounted on an ultra compact package, it is possible to allow reducing the number of the parts and the mounting cost.
- Zener voltage correspond to E24 Series.
- Low total capacitance:  $C_T = 6.0$  pF (typ.)

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

| Characteristics           | Symbol    | Rating     | Unit             |
|---------------------------|-----------|------------|------------------|
| Power dissipation         | P         | 200        | mW               |
| Junction temperature      | $T_j$     | 125        | $^\circ\text{C}$ |
| Storage temperature range | $T_{stg}$ | -55 to 125 | $^\circ\text{C}$ |



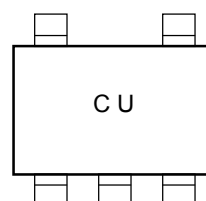
## Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

| Characteristics        | Symbol   | Test Condition           | Min | Typ. | Max | Unit          |
|------------------------|----------|--------------------------|-----|------|-----|---------------|
| Zener voltage          | $V_Z$    | $I_Z = 5$ mA             | 6.5 | 6.8  | 7.1 | V             |
| Dynamic impedance      | $Z_Z$    | $I_Z = 5$ mA             | —   | —    | 50  | $\Omega$      |
| Knee dynamic impedance | $Z_{ZK}$ | $I_Z = 0.5$ mA           | —   | —    | 100 | $\Omega$      |
| Reverse current        | $I_R$    | $V_R = 5$ V              | —   | —    | 0.5 | $\mu\text{A}$ |
| Total capacitance      | $C_T$    | $V_R = 0$ V, $f = 1$ MHz | —   | 6.0  | —   | pF            |

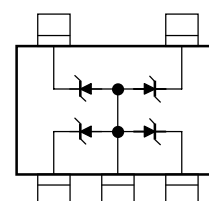
## Guaranteed Level of ESD Immunity

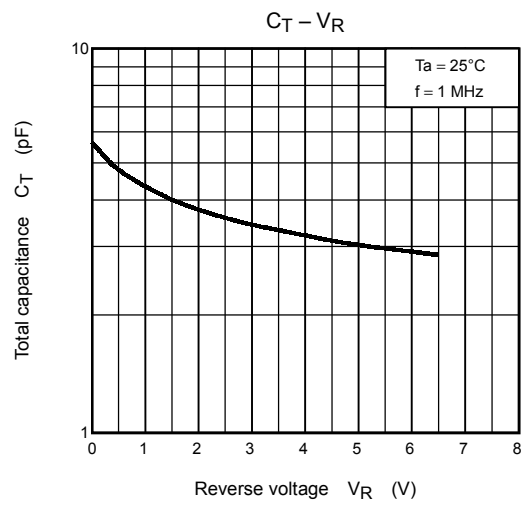
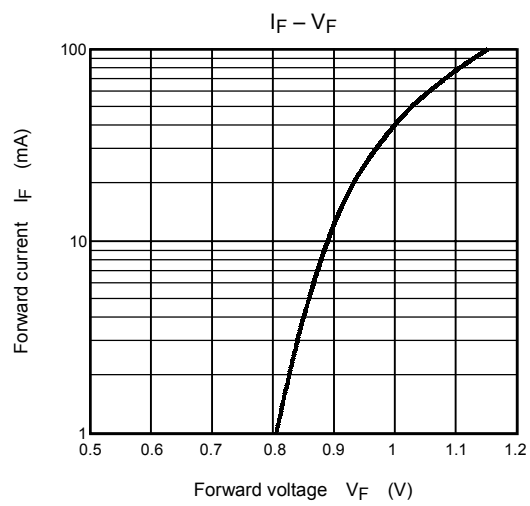
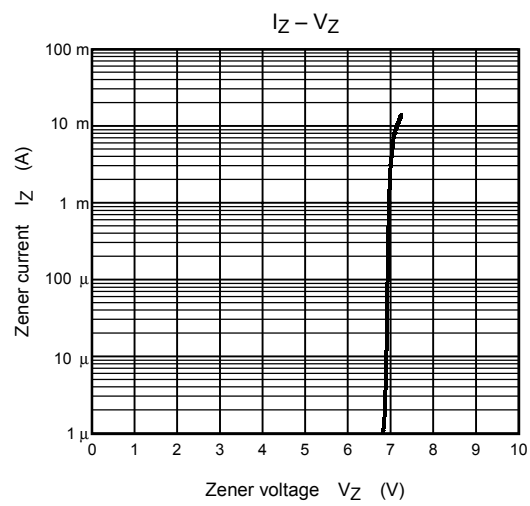
| Test Condition                      | ESD Immunity Level |
|-------------------------------------|--------------------|
| IEC61000-4-2<br>(contact discharge) | $\pm 8$ kV         |

## Marking



## Equivalent Circuit (top view)





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