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High Voltage Switching Applications

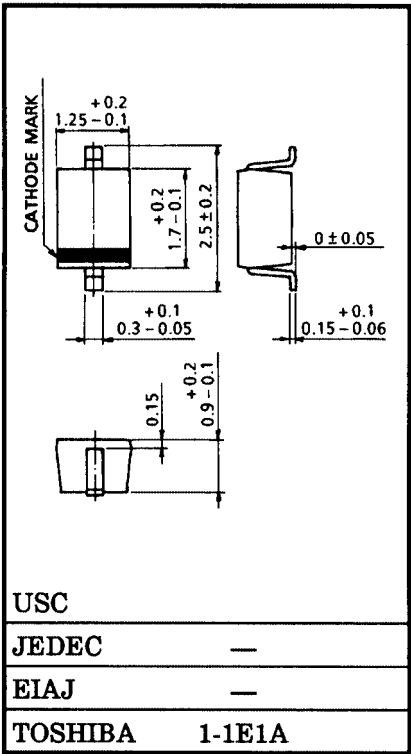
- Tow-pin small packages are suitable for higher mounting densities
- Excellent in Forward Current and Forward Voltage Characteristics : VF (3) = 0.8 V (typ.)
- Fast Reverse Recovery Time: IR = 50 μA (max)
- Small Total Capacitance: CT = 46 pF (typ.)

Maximum Ratings (Ta = 25°C)

| Characteristics                | Symbol           | Rating        | Unit |
|--------------------------------|------------------|---------------|------|
| Maximum (peak) reverse voltage | V <sub>RM</sub>  | 25            | V    |
| Reverse voltage                | V <sub>R</sub>   | 20            | V    |
| Maximum (peak) forward current | I <sub>FM</sub>  | 700           | mA   |
| Average forward current        | I <sub>O</sub>   | 300           | mA   |
| Power dissipation              | P                | 200<br>(Note) | mW   |
| Junction temprature            | T <sub>j</sub>   | 125           | °C   |
| Storage temperature range      | T <sub>stg</sub> | -55 to 125    | °C   |

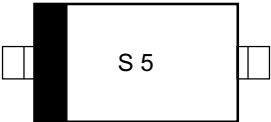
Note: When mounted on a glass epoxy board PCB: 20 mm × 20 mm, with copper pad 4 mm × 4 mm.

Unit in mm

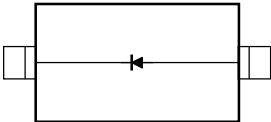


Weight : 0.004g

Marking



Equivalent Circuit (top view)



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## Electrical Characteristics (Ta = 25°C)

| Characteristics   | Symbol             | Test Condition                | Min | Typ. | Max  | Unit |
|-------------------|--------------------|-------------------------------|-----|------|------|------|
| Forward voltage   | V <sub>F</sub> (1) | I <sub>F</sub> = 1 mA         | —   | 0.16 | —    | V    |
|                   | V <sub>F</sub> (2) | I <sub>F</sub> = 10 mA        | —   | 0.22 | —    |      |
|                   | V <sub>F</sub> (3) | I <sub>F</sub> = 300 mA       | —   | 0.38 | 0.45 |      |
| Reverse current   | I <sub>R</sub>     | V <sub>R</sub> = 20 V         | —   | —    | 50   | μA   |
| Total capacitance | C <sub>T</sub>     | V <sub>R</sub> = 0, f = 1 MHz | —   | 46   | —    | pF   |

