TOSHIBA Diode Silicon Epitaxial Planar Type

1SS322

Low Voltage High Speed Switching

• Low forward voltage $: V_{F(3)} = 0.54V \text{ (typ.)}$ • Low reverse current $: I_{R} = 5\mu\text{A (max)}$

• Small package : SC-70

Maximum Ratings (Ta = 25°C)

| Characteristic | Symbol | Rating | Unit |
|--------------------------------|------------------|---------|------|
| Maximum (peak) reverse voltage | V_{RM} | 45 | V |
| Reverse voltage | V _R | 40 | V |
| Maximum (peak) forward current | I _{FM} | 300 | mA |
| Average forward current | Io | 100 | mA |
| Power dissipation | Р | 100 | mW |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | T _{stg} | -55~125 | °C |

2.1±0.1 1.25±0.1 1.4NODE 2. N.C. USM 3. CATHODE JEDEC EIAJ SC-70 TOSHIBA 1.25±0.1 1.2

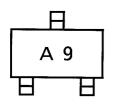
Weight: 0.006g

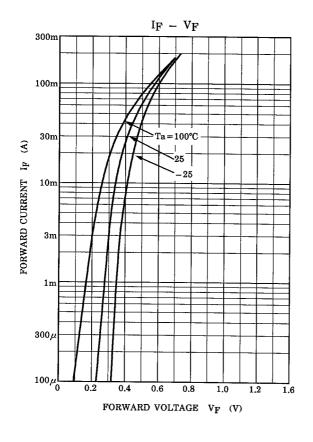
Electrical Characteristics (Ta = 25°C)

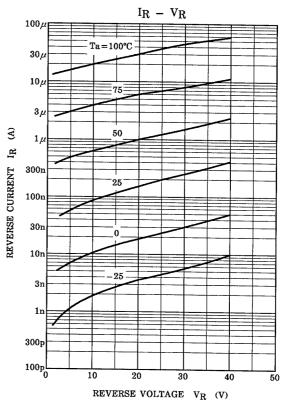
| Characteristic | Symbol | Test Circuit | Test Condition | Min | Тур. | Max | Unit | |
|-------------------|--------------------|-----------------|------------------------------|-----|------|------|------|--|
| Forward voltage | V _{F (1)} | _ | I _F = 1mA | | 0.28 | _ | | |
| | V _{F (2)} | _ | I _F = 10mA | _ | 0.36 | _ | V | |
| | V _{F (3)} | _ | I _F = 100mA | _ | 0.54 | 0.60 | | |
| Reverse current | IR | _ | V _R = 40V | _ | _ | 5 | μA | |
| Total capacitance | C _T | _ | V _R = 0, f = 1MHz | _ | 18 | 25 | pF | |

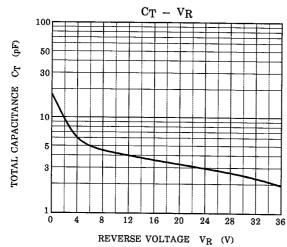
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Marking









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