Unit: mm

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS294

Low Voltage High Speed Switching

- AEC-Q101 Qualified (Note1)
- Low forward voltage $V_{\rm F}(3) = 0.54 V (typ.)$
- Low reverse surrent $I_{R} = 5\mu A (max)$
- Small package : SC-59

Characteristic

Maximum (peak) reverse voltage

Reverse voltage

Note1: For detail information, please contact to our sales.

| | - | |
|---|---------|--|
| | | 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 0.4 +0.4 |
| - | | ³ 1. ANODE 2. N.C 3. CATHODE |
| | JEDEC | TO-236MOD |
| | JEITA | SC-59 |
| _ | TOSHIBA | |
| | | 2-3F1S |

2.9±0.2

•

Absolute Maximum Ratings (Ta = 25°C)

| Maximum (peak) forward current | I _{FM} | 300 | mA | S-MINI |
|--------------------------------|------------------|------------|----|--------------------|
| Average forward current | lo | 100 | mA | JEDEC |
| Power dissipation | Р | 150 | mW | JEITA |
| Junction temperature | Tj | 125 | °C | TOSHIBA |
| Storage temperature range | T _{stg} | -55 to 125 | °C | Weight: 12 mg (typ |

Symbol

VRM

 V_{R}

/p.)

oltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Rating

45

40

Unit

V

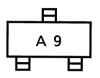
V

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Electrical Characteristics (Ta = 25°C)

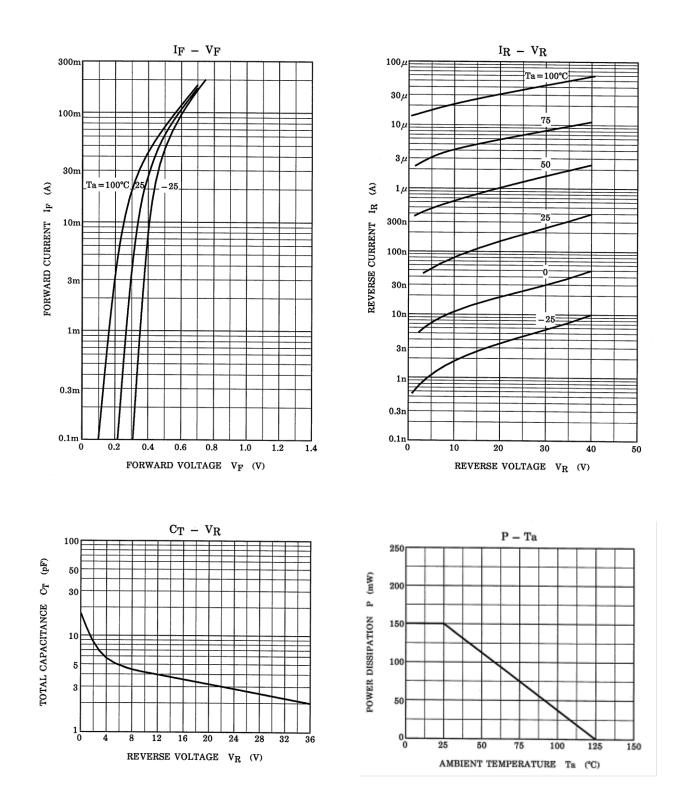
| Characteristic | Symbol | Test Condition | Min | Тур. | Max | Unit |
|-------------------|--------|--------------------------------|-----|------|------|------|
| | VF (1) | IF = 1mA | _ | 0.28 | _ | V |
| Forward voltage | VF (2) | IF = 10mA | _ | 0.36 | _ | |
| | VF (3) | IF = 100mA | _ | 0.54 | 0.60 | |
| Reverse current | IR | VR = 40V | _ | _ | 5 | μΑ |
| Total capacitance | CT | V _R = 0 V, f = 1MHz | _ | 18 | 25 | pF |

Marking



Start of commercial production 1986-03

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