

TOSHIBA Diode Silicon Epitaxial Schottoky Barrier Type

1SS294

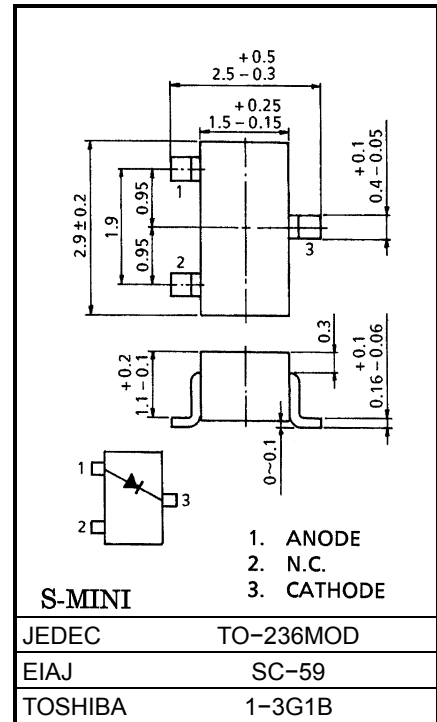
Unit: mm

Low Voltage High Speed Switching

- Low forward voltage : $V_F(3) = 0.54V$ (typ.)
- Low reverse current : $I_R = 5\mu A$ (max)
- Small package : SC-59

Maximum Ratings ($T_a = 25^\circ C$)

| 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 | I_O | 100 | mA |
| Power dissipation | P | 150 | mW |
| Junction temperature | T_j | 125 | $^\circ C$ |
| Storage temperature range | T_{stg} | -55~125 | $^\circ C$ |

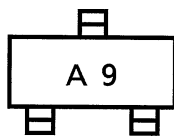


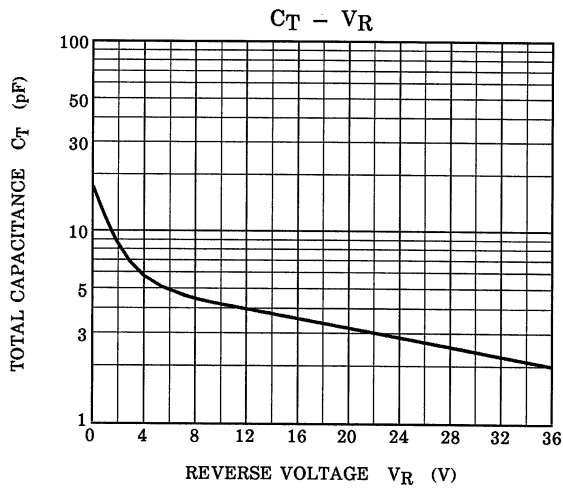
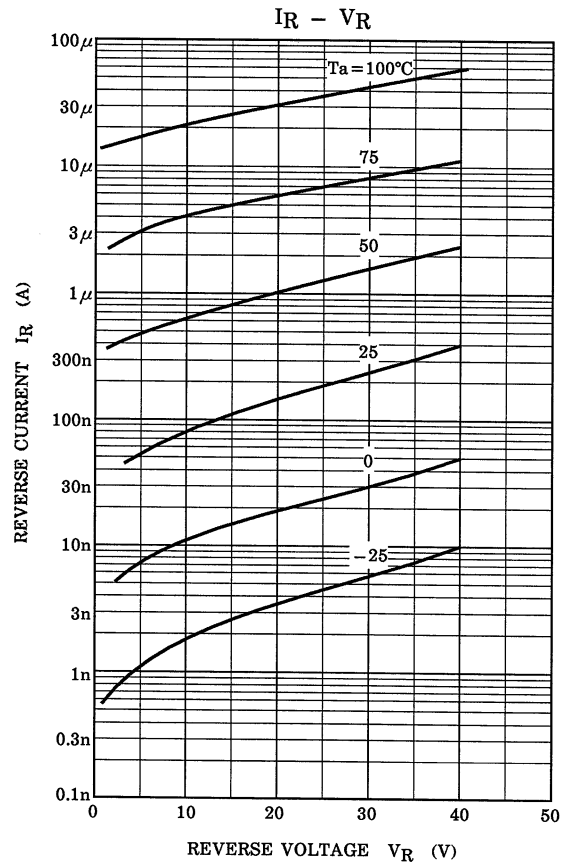
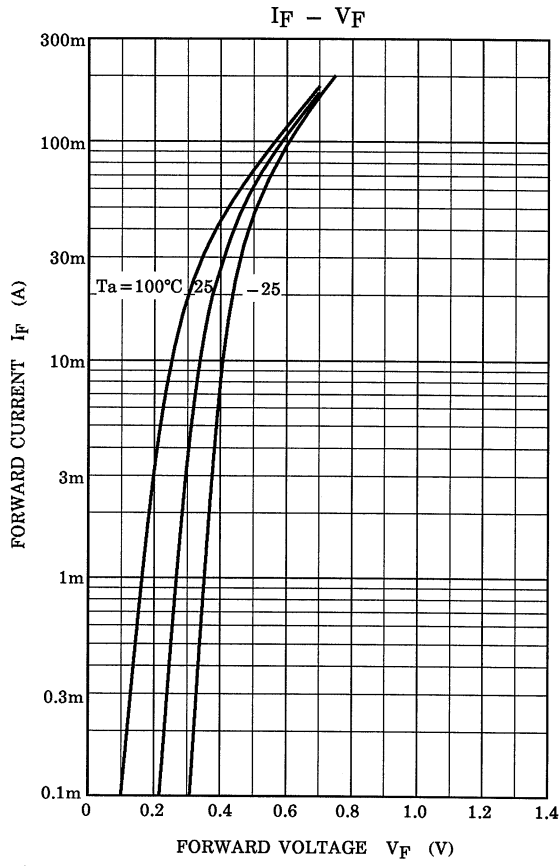
Weight: 0.012g

Electrical Characteristics ($T_a = 25^\circ C$)

| Characteristic | Symbol | Test Circuit | Test Condition | Min | Typ. | Max | Unit |
|-------------------|----------|--------------|---------------------|-----|------|------|---------|
| Forward voltage | $V_F(1)$ | — | $I_F = 1mA$ | — | 0.28 | — | V |
| | $V_F(2)$ | — | $I_F = 10mA$ | — | 0.36 | — | |
| | $V_F(3)$ | — | $I_F = 100mA$ | — | 0.54 | 0.60 | |
| Reverse current | I_R | — | $V_R = 40V$ | — | — | 5 | μA |
| Total capacitance | C_T | — | $V_R = 0, f = 1MHz$ | — | 18 | 25 | pF |

Marking





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