

# 1SS370

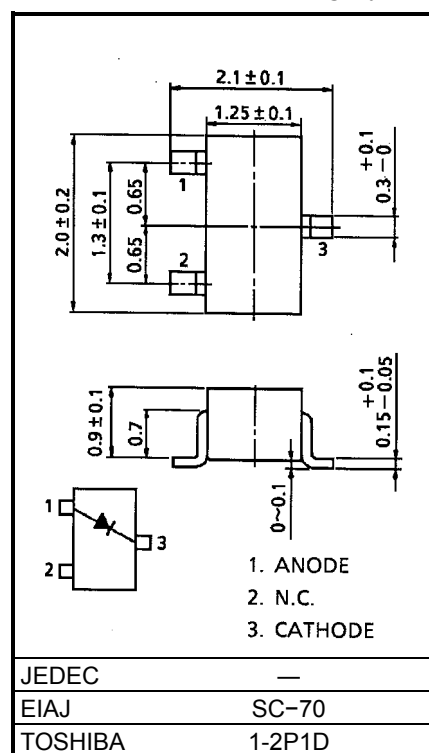
## High Voltage, High Speed Switching Applications

Unit: mm

- Low forward voltage :  $V_F (2) = 0.9V$  (typ.)
- Fast reverse recovery time:  $t_{rr} = 60ns$  (typ.)
- Small total capacitance :  $C_T = 1.5pF$  (typ.)
- Small package : SC-70

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

| Characteristic                 | Symbol    | Rating  | Unit       |
|--------------------------------|-----------|---------|------------|
| Maximum (peak) reverse voltage | $V_{RM}$  | 250     | V          |
| Reverse voltage                | $V_R$     | 200     | V          |
| Maximum (peak) forward current | $I_{FM}$  | 300     | mA         |
| Average forward current        | $I_O$     | 100     | mA         |
| Surge current (10ms)           | $I_{FSM}$ | 2       | A          |
| Power dissipation              | P         | 100     | mW         |
| Junction temperature           | $T_j$     | 125     | $^\circ C$ |
| Storage temperature range      | $T_{stg}$ | -55~125 | $^\circ C$ |



Weight: 0.006g

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

| Characteristic        | Symbol    | Test Circuit | Test Condition      | Min | Typ. | Max | Unit    |
|-----------------------|-----------|--------------|---------------------|-----|------|-----|---------|
| Forward voltage       | $V_F (1)$ | —            | $I_F = 10mA$        | —   | 0.72 | 1.0 | V       |
|                       | $V_F (2)$ | —            | $I_F = 100mA$       | —   | 0.90 | 1.2 |         |
| Reverse current       | $I_R (1)$ | —            | $V_R = 50V$         | —   | —    | 0.1 | $\mu A$ |
|                       | $I_R (2)$ | —            | $V_R = 200V$        | —   | —    | 1.0 |         |
| Total capacitance     | $C_T$     | —            | $V_R = 0, f = 1MHz$ | —   | 1.5  | 3.0 | pF      |
| Reverse recovery time | $t_{rr}$  | —            | $I_F = 10mA, Fig.1$ | —   | 10   | 60  | ns      |