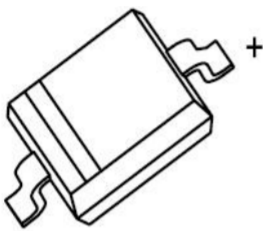


### FEATURES

- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications



SOD-323

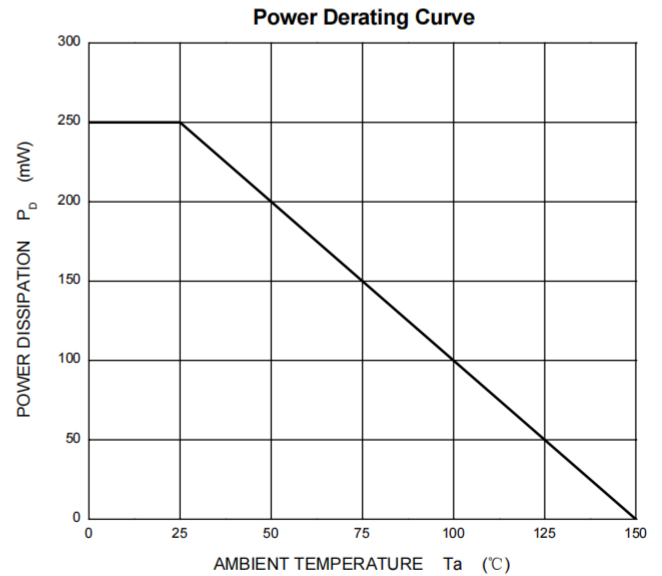
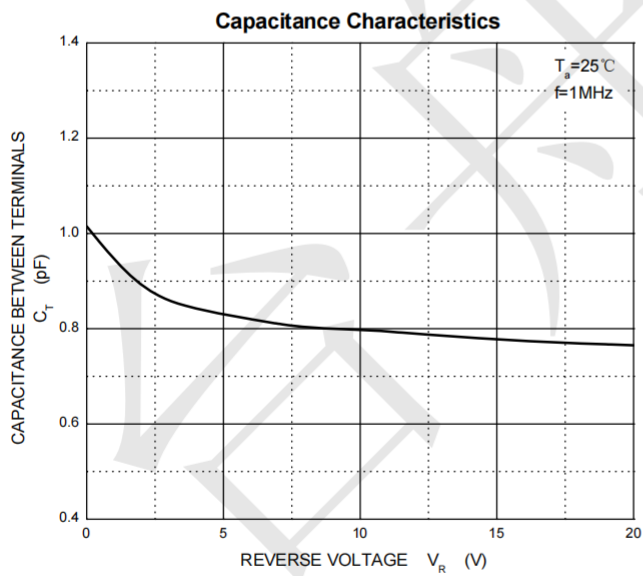
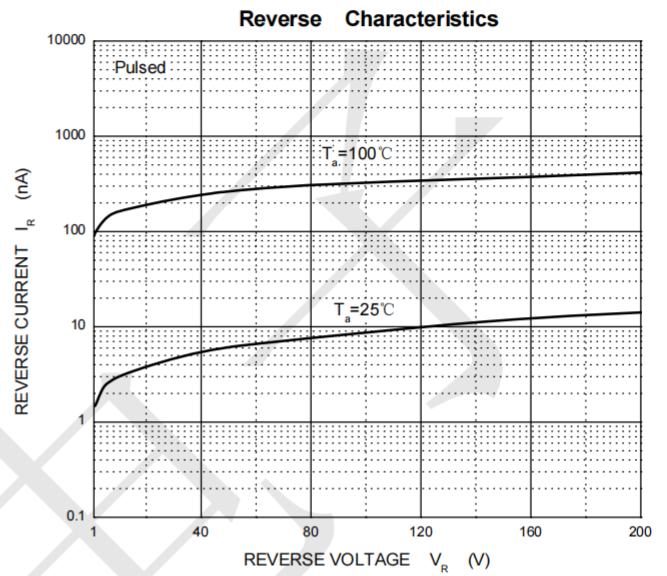
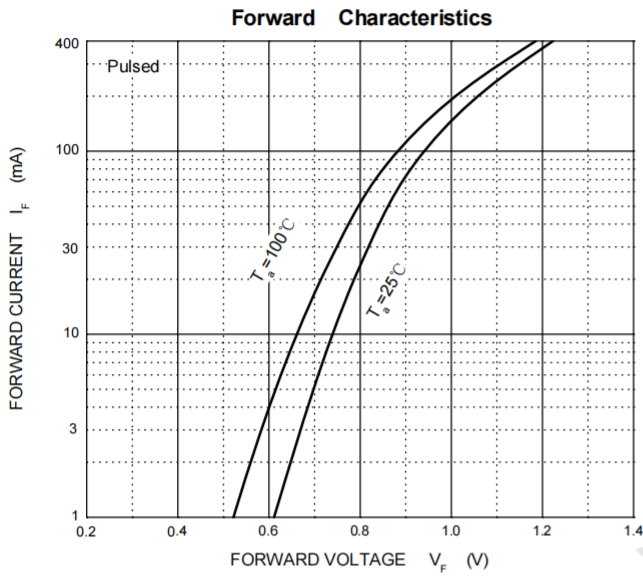


### MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ unless otherwise noted )

| Symbol          | Parameter  | Value    | Unit                        |
|-----------------|--|----------|-----------------------------|
| $V_{RM}$        | Non-Repetitive Peak Reverse Voltage                          | 200      | V                           |
| $V_{RRM}$       | Peak Repetitive Reverse Voltage                              | 150      | V                           |
| $V_{RWM}$       | Working Peak Reverse Voltage                                 |          |                             |
| $V_{R(RMS)}$    | RMS Reverse Voltage  | 106      | V                           |
| $I_O$           | Average Rectified Output Current                             | 200      | mA                          |
| $I_{FSM}$       | Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$ | 2.0      | A                           |
| $P_D$           | Power Dissipation  | 250      | mW                          |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient                  | 500      | $^{\circ}\text{C}/\text{W}$ |
| $T_j$           | Junction Temperature   | 150      | $^{\circ}\text{C}$          |
| $T_{stg}$       | Storage Temperature  | -55~+150 | $^{\circ}\text{C}$          |

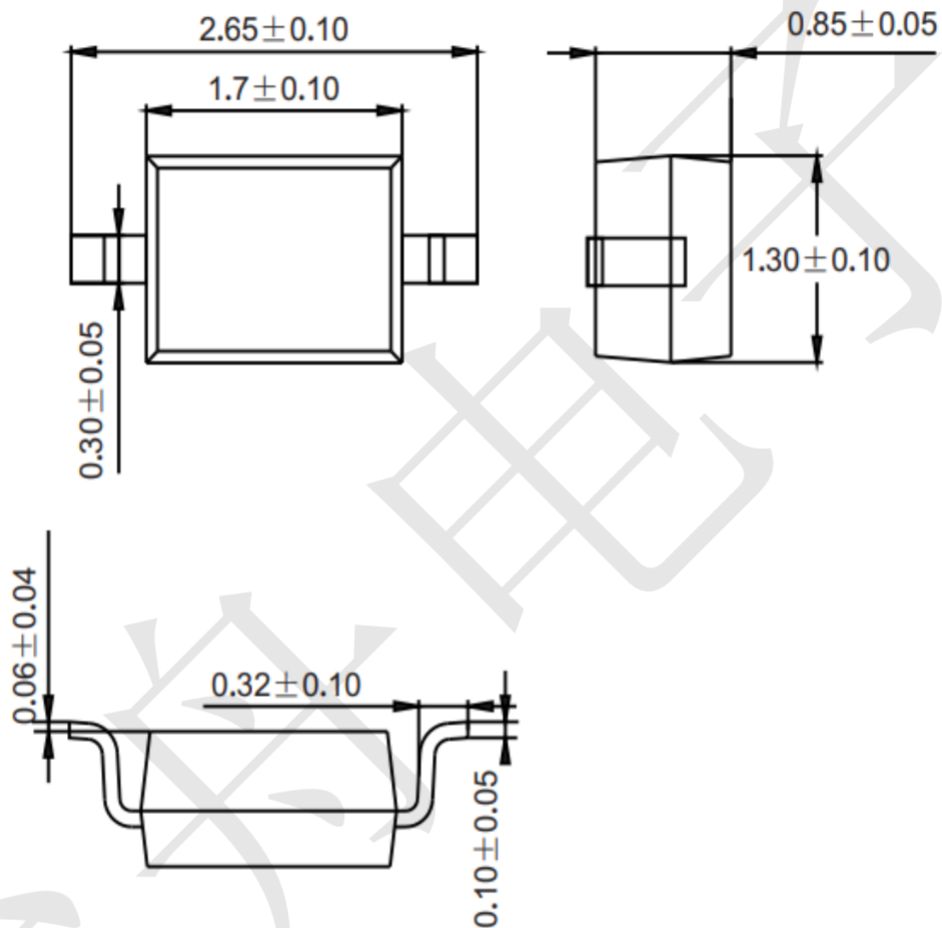
### ELECTRICAL CHARACTERISTICS( $T_a=25^{\circ}\text{C}$ unless otherwise specified)

| Parameter             | Symbol    | Test conditions  | Min | Typ | Max  | Unit          |
|-----------------------|-----------|--|-----|-----|------|---------------|
| Reverse current       | $I_R$     | $V_R=150\text{V}$  |     |     | 0.1  | $\mu\text{A}$ |
| Forward voltage       | $V_F$     | $I_F=100\text{mA}$   |     |     | 1    | V             |
|                       |           | $I_F=200\text{mA}$   |     |     | 1.25 |               |
| Total capacitance     | $C_{tot}$ | $V_R=0\text{V}, f=1\text{MHz}$                             |     |     | 5    | pF            |
| Reverse recovery time | $t_{rr}$  | $I_F=I_R=30\text{mA}, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$ |     |     | 50   | ns            |



**Package information (Unit: mm)**

**SOD-323**



**Mounting Pad Layout (Unit: mm)**

