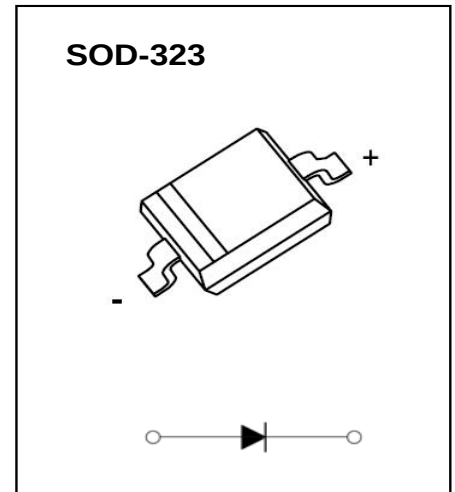
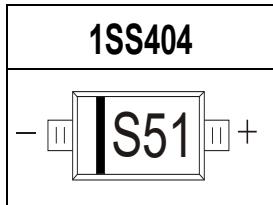


**SOD-323 Plastic-Encapsulate Diodes****1SS404****SCHOTTKY BARRIER DIODE****FEATURES**

- High Speed
- High Reliability With High Surge Current Handling Capability

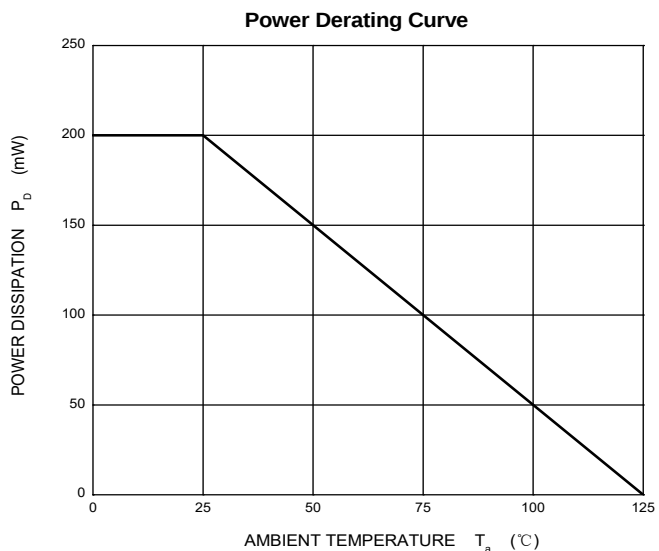
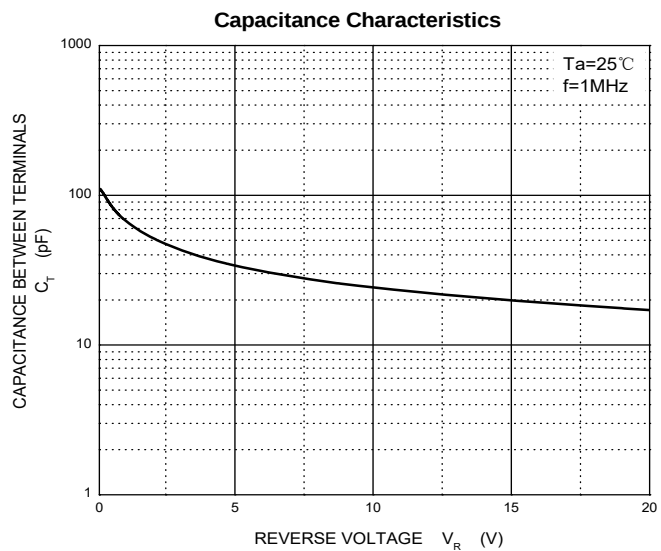
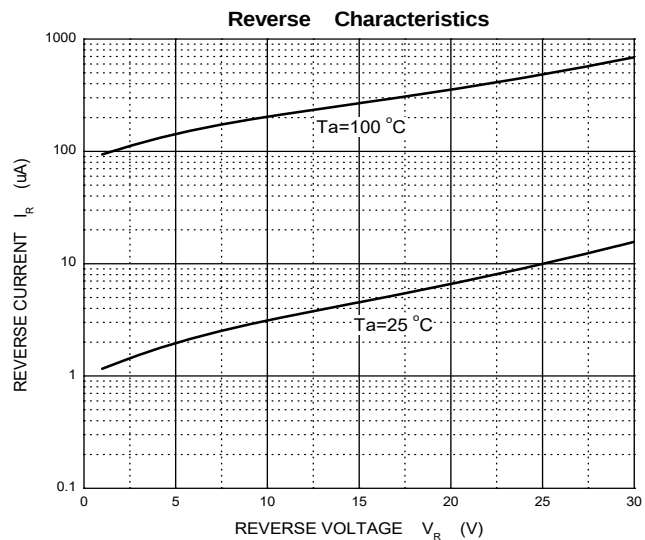
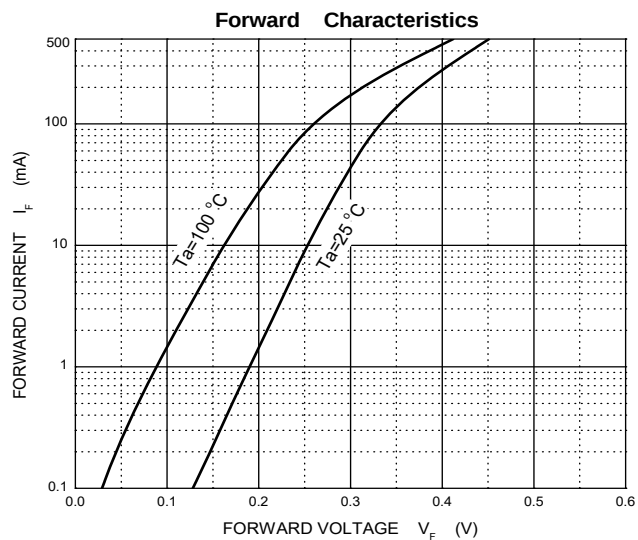
**MARKING****MAXIMUM RATINGS** ( $T_a=25^{\circ}\text{C}$  unless otherwise noted)

| Parameter                              | Symbol          | Limit      | Unit                        |
|----------------------------------------|-----------------|------------|-----------------------------|
| Peak reverse voltage                   | $V_{RM}$        | 25         | V                           |
| DC reverse voltage                     | $V_R$           | 20         | V                           |
| Average rectified output current       | $I_O$           | 300        | mA                          |
| Peak forward current                   | $I_{FM}$        | 700        | mA                          |
| Power dissipation                      | $P_D$           | 200        | mW                          |
| Thermal resistance junction to ambient | $R_{\theta JA}$ | 500        | $^{\circ}\text{C}/\text{W}$ |
| Operating Junction Temperature Range   | $T_j$           | -40 ~ +125 | $^{\circ}\text{C}$          |
| Storage Temperature Range              | $T_{stg}$       | -55 ~ +150 | $^{\circ}\text{C}$          |

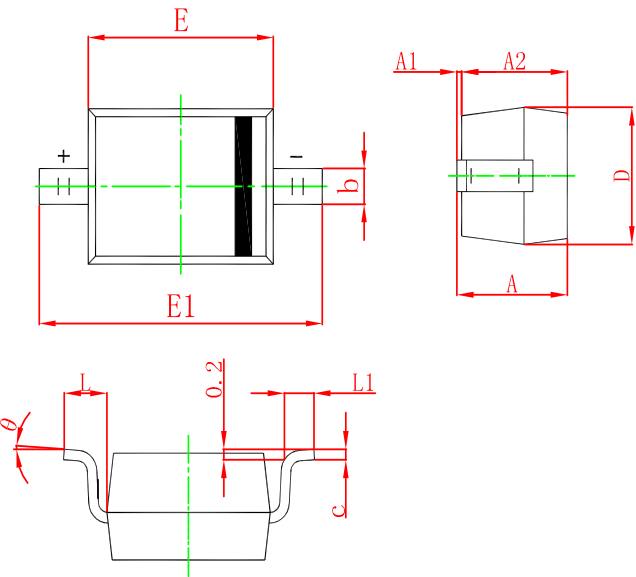
**ELECTRICAL CHARACTERISTICS** ( $T_a=25^{\circ}\text{C}$  unless otherwise specified)

| Parameter                     | Symbol   | Min | Typ  | Max  | Unit          | Conditions                        |
|-------------------------------|----------|-----|------|------|---------------|-----------------------------------|
| Forward voltage               | $V_{F1}$ |     | 0.16 |      | V             | $I_F=1\text{mA}$                  |
|                               | $V_{F2}$ |     | 0.22 |      | V             | $I_F=10\text{mA}$                 |
|                               | $V_{F3}$ |     | 0.38 | 0.45 | V             | $I_F=300\text{mA}$                |
| Reverse current               | $I_R$    |     |      | 50   | $\mu\text{A}$ | $V_R=20\text{V}$                  |
| Capacitance between terminals | $C_T$    |     | 46   |      | pF            | $V_R=0\text{V}$ , $f=1\text{MHz}$ |

## Typical Characteristics

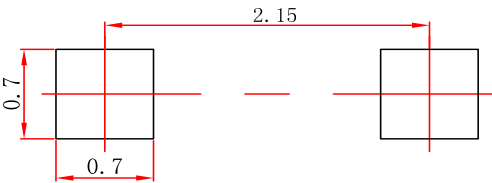


Package Outline Dimensions (SOD-323)



| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |
|--------|---------------------------|-------|----------------------|-------|
|        | Min                       | Max   | Min                  | Max   |
| A      |                           | 1.100 |                      | 0.043 |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |
| A2     | 0.800                     | 1.000 | 0.031                | 0.039 |
| b      | 0.250                     | 0.350 | 0.010                | 0.014 |
| c      | 0.080                     | 0.150 | 0.003                | 0.006 |
| D      | 1.200                     | 1.400 | 0.047                | 0.055 |
| E      | 1.600                     | 1.800 | 0.063                | 0.071 |
| E1     | 2.500                     | 2.750 | 0.098                | 0.108 |
| L      | 0.475 REF                 |       | 0.019 REF            |       |
| L1     | 0.250                     | 0.400 | 0.010                | 0.016 |
| θ      | 0°                        | 8°    | 0°                   | 8°    |

Suggested Pad Layout (SOD-323)



- Note:
- 1.Controlling dimension:in millimeters.
  - 2.General tolerance:± 0.05mm.
  - 3.The pad layout is for reference purposes only.