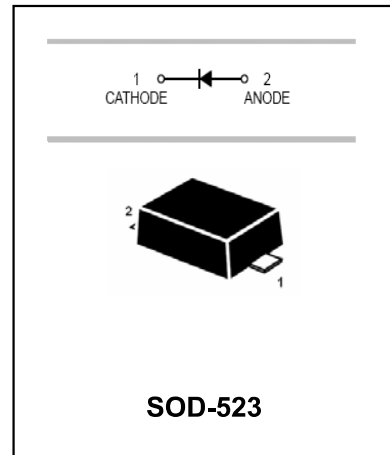


FEATURES

- Low forward voltage drop.
- Guard ring construction for transient protection.
- Low reverse recovery time.
- Low reverse capacitance.
- Compliant to Halogen - free.

APPLICATIONS

- Schottky barrier application.



ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| SD103AX | S4 | SOD-523 |

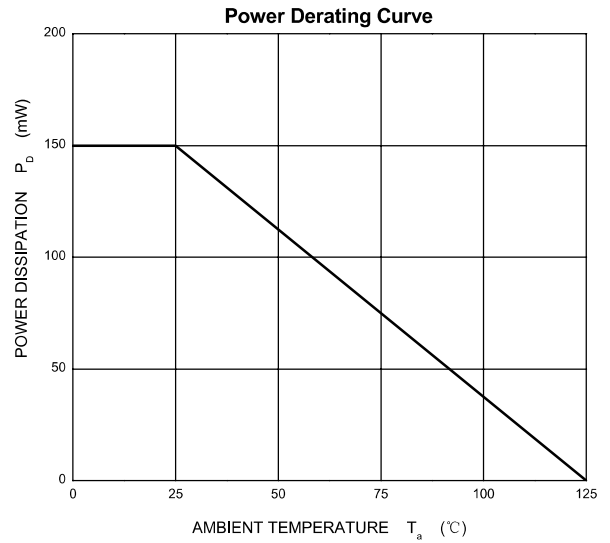
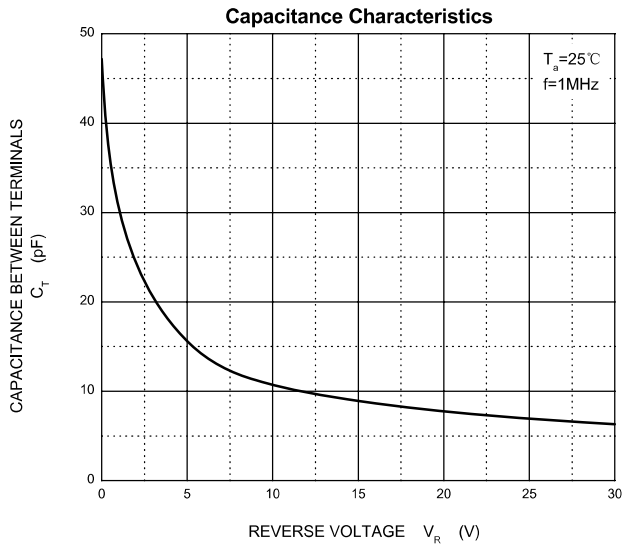
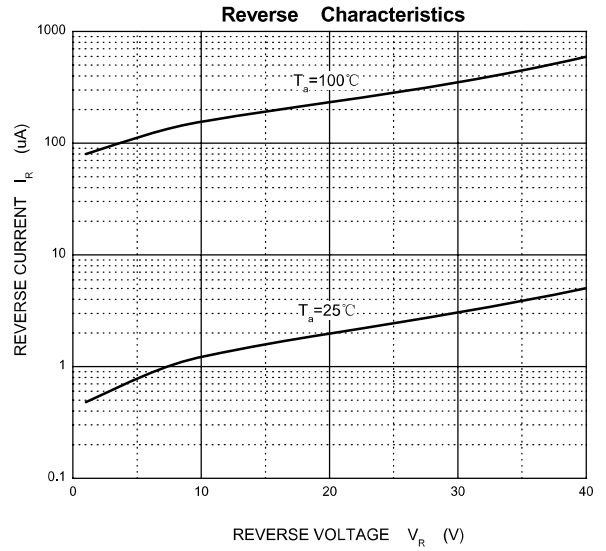
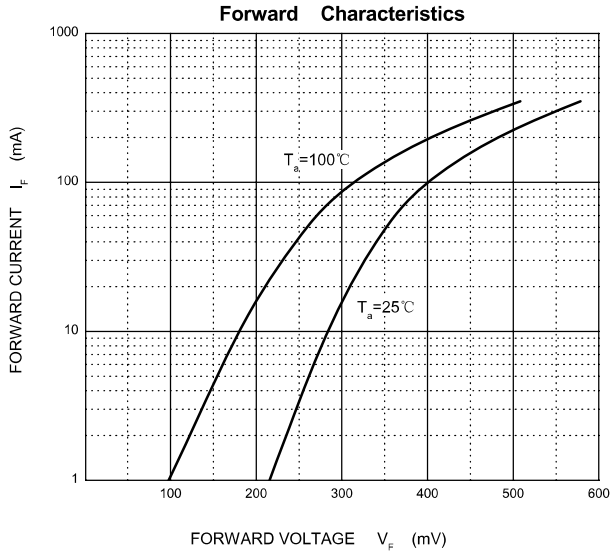
MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Limits | Unit |
|---|-----------------|---------|------|
| DC Reverse voltage | V_R | 40 | V |
| Continuous forward current | I_F | 350 | mA |
| Repetitive peak forward current @ $t \leq 1.0s$ | I_{FRM} | 1 | A |
| Total power dissipation | P_{tot} | 400 | mW |
| Total resistance junction to ambient | $R_{\theta JA}$ | 300 | °C/W |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -65-125 | °C |

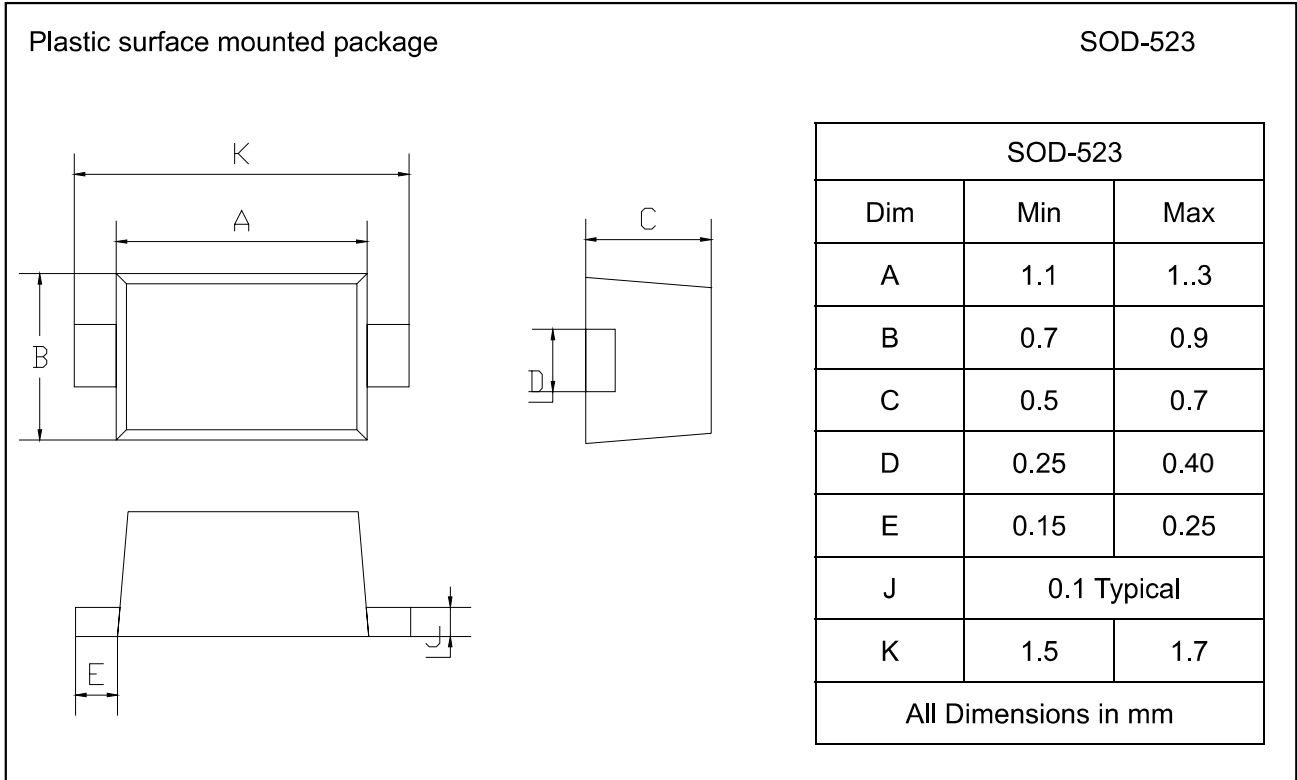
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---------------------------|-------------|------|------|--------------|---------|-------------------------------|
| Reverse breakdown voltage | $V_{(BR)R}$ | 40 | | | V | $I_R=100\mu A$ |
| Forward voltage | V_F | | | 0.37 0.60 | V | $I_F=20mA$ $I_F=200mA$ |
| Reverse current | I_R | | | 5.0 | μA | $V_R=30V$ |
| Diode capacitance | C_d | | 50 | | pF | $V_R=0V, f=1MHz$ |
| Reverse recovery time | t_{rr} | | 10 | | ns | $I_F=I_R=50mA, R_L=100\Omega$ |

Typical Characteristics



PACKAGE OUTLINE



SOLDERING FOOTPRINT

