

SOD-323FLW Fast Swithing Diodes

Features

- Fast Switching Speed
- Power Dissipation of 300mW
- High Conductance
- Low reverse leakage

Applications

Small signal switching  
Ultra high speed switching application

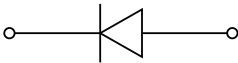
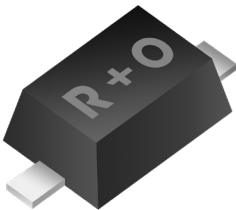
Mechanical Data

- Case: SOD-323FLW  
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Cathode line denotes the cathode end

Function Diagram

Reverse Voltage  
100 V  
Forward Current  
0.15 Ampere

SOD-323FLW



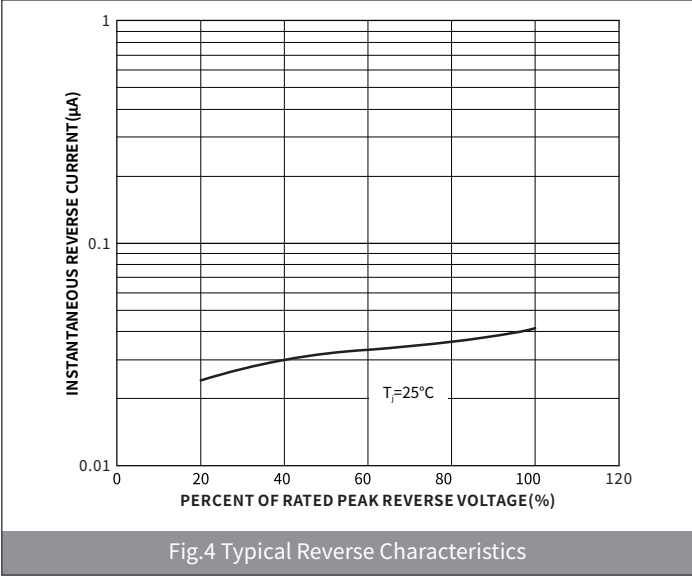
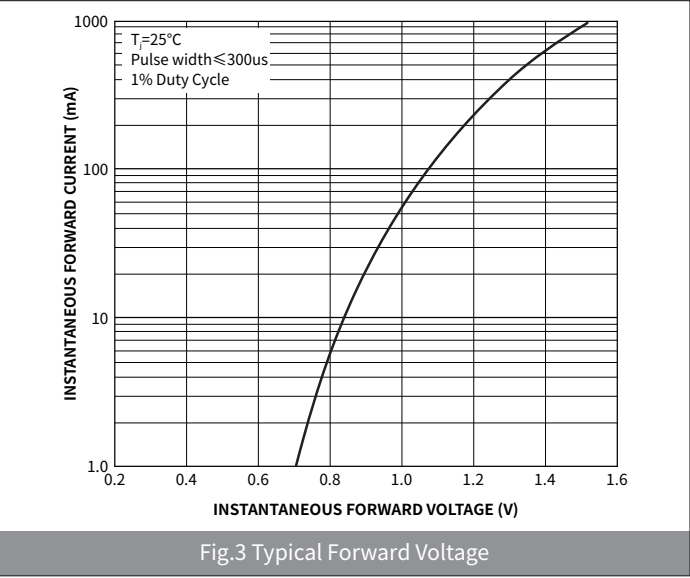
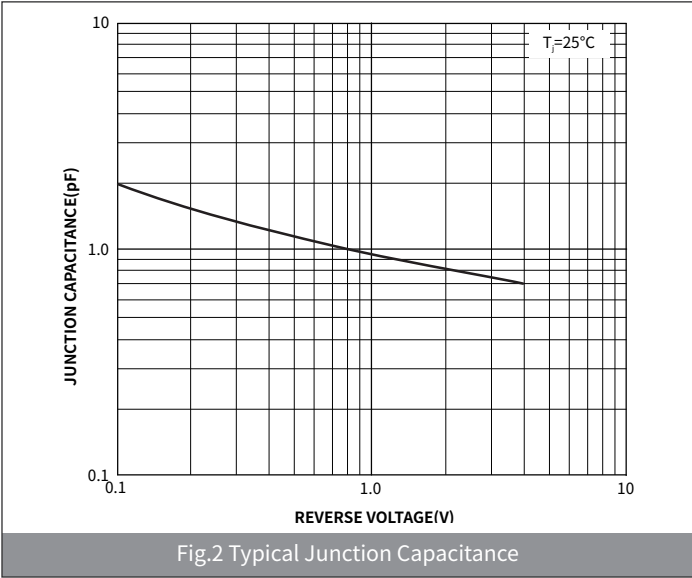
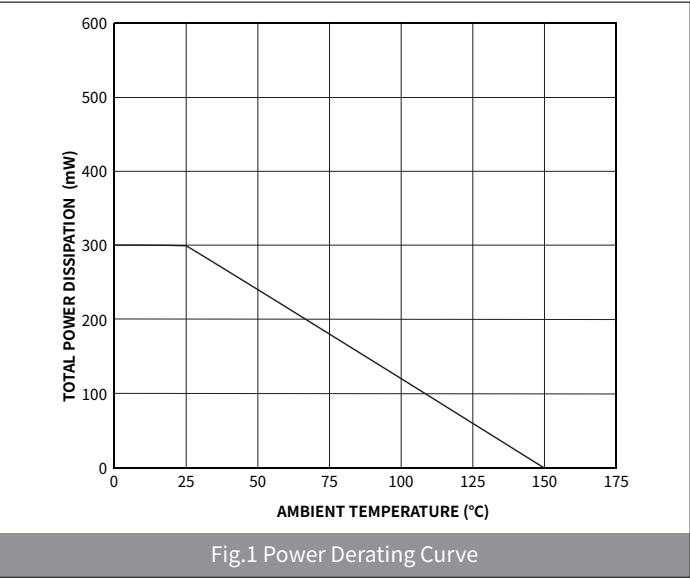
Maximum Ratings (Ta=25°C Unless otherwise specified)

| PARAMETER                                                                    | SYMBOL      | UNIT | VALUE      |
|------------------------------------------------------------------------------|-------------|------|------------|
| Maximum Repetitive Peak Reverse Voltage                                      | $V_{RRM}$   | V    | 100        |
| Maximum RMS Voltage                                                          | $V_{RMS}$   | V    | 75         |
| Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load,TL | $I_{F(AV)}$ | A    | 0.15       |
| Non-repetitive Peak Forward Surge Current @ t=1s Half-sine wave              | $I_{FSM}$   | A    | 0.5        |
| Total Power Dissipation                                                      | $P_{tot}$   | mW   | 300        |
| Storage temperature                                                          | $T_{stg}$   | °C   | -55 ~ +150 |
| Junction temperature                                                         | $T_j$       | °C   | -55 ~ +150 |

● Electrical Characteristics (Ta=25°C Unless otherwise noted)

| PARAMETER                                               | TEST CONDITIONS                          | SYMBOL   | UNIT          | Min | Type | Max   |
|---------------------------------------------------------|------------------------------------------|----------|---------------|-----|------|-------|
| Maximum instantaneous forward voltage                   | $I_F=1.0\text{mA}$                       | $V_F$    | V             | —   | —    | 0.715 |
|                                                         | $I_F=10\text{mA}$                        |          |               | —   | —    | 0.855 |
|                                                         | $I_F=50\text{mA}$                        |          |               | —   | —    | 1.0   |
|                                                         | $I_F=150\text{mA}$                       |          |               | —   | —    | 1.25  |
| Maximum reverse recovery time                           | $I_F=I_R=10\text{mA}, I_{rr}=1\text{mA}$ | $T_{rr}$ | ns            | —   | —    | 4     |
| Maximum DC reverse current at rated DC blocking voltage | $V_R=V_{RMS}, T_J=25^\circ\text{C}$      | $I_{R1}$ | $\mu\text{A}$ | —   | —    | 1.0   |
|                                                         | $V_R=V_{RMS}, T_J=150^\circ\text{C}$     | $I_{R2}$ |               | —   | —    | 50    |
| Typical junction capacitance                            | 4.0V DC, 1MHz                            | $C_J$    | pF            | —   | —    | 2     |

● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



Ordering Information

Table with 7 columns: PACKAGE, PACKAGE CODE, UNIT WEIGHT(g), REEL(pcs), BOX(pcs), CARTON(pcs), DELIVERY MODE. Row 1: SOD-323FLW, R1, 0.027, 3000, 24000, 120000, 7"

Package Outline Dimensions (SOD -323FLW)

Table with 5 columns: Symbol, Dimensions (Millimeters Min., Max., Inches Min., Max.). Rows include dimensions A, B, C, D, E, and HE with corresponding min/max values in mm and inches.

Suggested Pad Layout

Table with 5 columns: Symbol, Dimensions (Millimeters Min., Max., Inches Min., Max.). Rows include pad layout dimensions N, X, and Y with corresponding min/max values in mm and inches.