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SD101AW THRU SD101CW

Small Signal Schottky Diodes

Features

- For general purpose applications
- The SD101AW to SD101CW series is a Metal-on-silicon Schottky barrier device which is protected by a PN junction Guard ring.
- Low Forward Voltage Drop

Mechanical Data

- Case: SOD-123 plastic case
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by Cathode Band

Maximum Ratings @ 25°C Unless Otherwise Specified

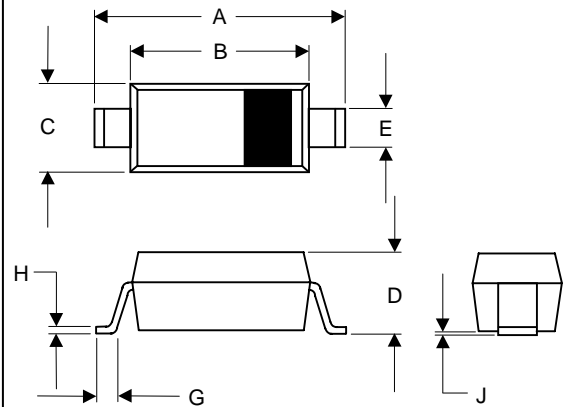
| Characteristic | Symbol | SD101AW | SD101BW | SD101CW |
|---|-----------|---------------|---------|---------|
| Peak Repetitive Reverse Voltage | V_{RRM} | | | |
| Working Peak Reverse Voltage | V_{RWM} | 60V | 50V | 40V |
| DC Blocking Voltage | V_R | | | |
| Maximum single cycle surge 10us square wave | I_{FSM} | 2.0A | | |
| Power Dissipation(Note 1) | P_d | 400mW | | |
| Thermal Resistance, Junction to Ambient | R | 300K/W | | |
| Junction Temperature | T_j | 125°C | | |
| Operation/Storage Temp. Range | T_{STG} | -55 to +150°C | | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Characteristic | Symbol | Max | Test Condition |
|------------------------------|----------|-------|----------------------------------|
| Leakage Current | I_R | 200nA | $V_R=50V$ |
| | | 200nA | $V_R=40V$ |
| | | 200nA | $V_R=30V$ |
| Maximum Forward Voltage Drop | V_F | 0.41V | $I_F=1mA$ $I_F=15mA$ |
| | | 0.4V | |
| | | .39V | |
| | | 1V | |
| | | 0.95V | |
| | | 0.9V | |
| Junction Cap. | C_j | 2.0pF | $V_R=0V, f=1.0MHz$ |
| | | 2.1pF | |
| | | 2.2pF | |
| Reverse Recovery Time | t_{rr} | 1ns | $I_F=I_R=5mA, recover to 0.1I_R$ |

Note: 1. Valid provided that electrodes are kept at ambient temperature

SOD-123



| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .140 | .152 | 3.55 | 3.85 | |
| B | .100 | .112 | 2.55 | 2.85 | |
| C | .055 | .071 | 1.40 | 1.80 | |
| D | ---- | .053 | ---- | 1.35 | |
| E | .012 | .031 | 0.30 | .78 | |
| G | .006 | ---- | 0.15 | ---- | |
| H | ---- | .01 | ---- | .25 | |
| J | ---- | .006 | ---- | .15 | |

SUGGESTED SOLDER PAD LAYOUT

