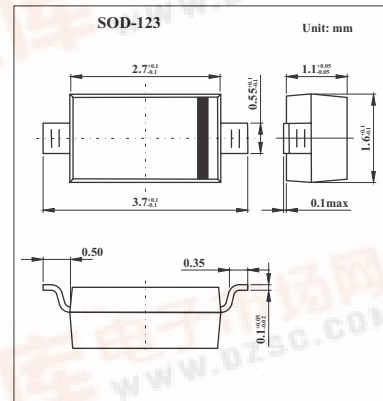


SMD Type Diodes

SMALL SIGNAL DIODES  
1N6263W

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance
- Surface Mount Package Ideally Suited for Automatic Insertion



Absolute Maximum Ratings Ta = 25°C

| Parameter  | Symbol  | Value      | Unit |
|--|---------|------------|------|
| Peak Repetitive Reverse Voltage                      | VRRM    |            |      |
| Working Peak Reverse Voltage                         | VRWM    | 60         | V    |
| DC Blocking Voltage                                  | VR      |            |      |
| RMS Reverse Voltage                                  | VR(RMS) | 42         | V    |
| Forward Continuous Current                           | IF      | 15         | mA   |
| Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s | IFSM    | 50         | mA   |
| @ t = 10 ms  |         | 2.0        | A    |
| Power Dissipation (Note1)                            | Pd      | 333        | mW   |
| Thermal Resistance, Junction to Ambient Air (Note 1) | θJA     | 300        | °C/W |
| Operating Temperature Range                          | Tj      | -55 to+125 | °C   |
| Storage Temperature Range                            | TSTG    | -55 to+150 | °C   |

Note:

1. Part mounted on FR-4 board with recommended pad layout.

Electrical Characteristics Ta = 25°C

| Characteristic                     | Symbol | Test Condition                                 | Min | Typ | Max  | Unit |
|------------------------------------|--------|--|-----|-----|------|------|
| Reverse Breakdown Voltage (Note 2) | V(BR)R | IR = 10 μ A                                    | 60  |     |      | V    |
| Reverse Leakage Current (Note2)    | IRM    | VR = 50 V                                      |     |     | 200  | nA   |
| Forward Voltage Drop (Note2)       | VFM    | IF = 1.0 mA                                    |     |     | 0.41 | V    |
|                                    |        | IF = 15 mA                                     |     |     | 1.00 |      |
| Total Capacitance                  | CT     | VR = 0v, f = 1.0 MHz                           |     |     | 2.0  | pF   |
| Reverse Recovery Time              | trr    | IF = IR = 5.0 mA<br>Irr = 0.1 x IR, RL = 100 Ω |     |     | 1.0  | ns   |

Note:

2. Short duration test pulse used to minimize self-heating effect.

Marking



SB