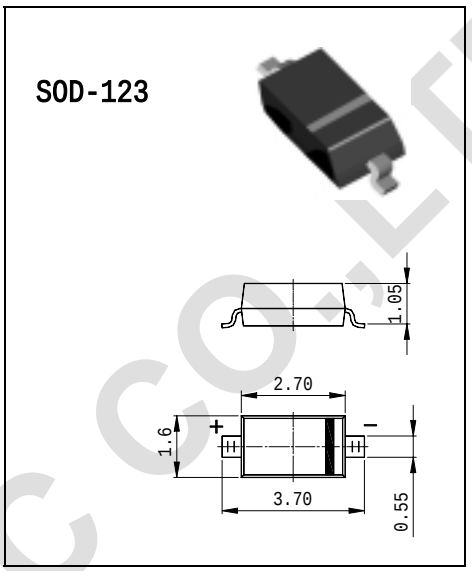
WEJ®

RoHS

# 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

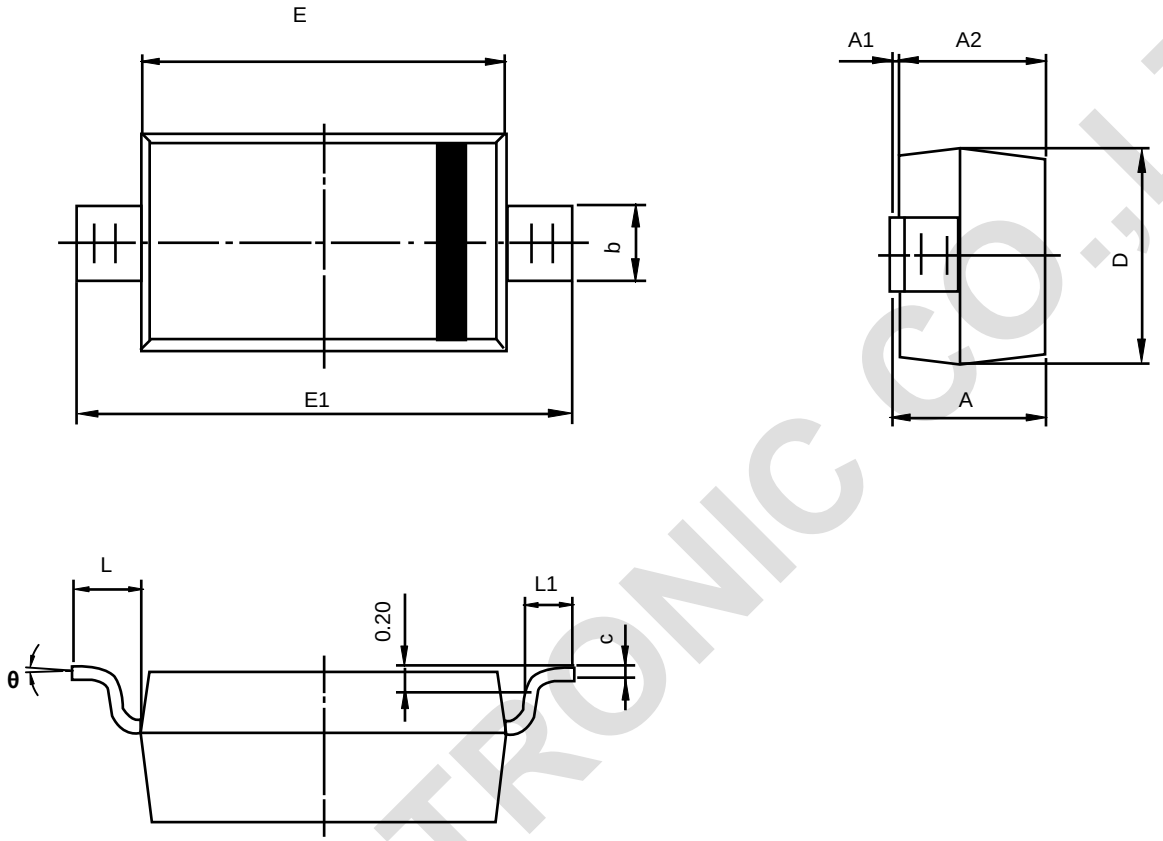
## Maximum Ratings @ $T_A$ = 25°C unless otherwise specified

| Characteristic | Symbol | 1N6263W | Unit |
|---|---|---|---|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_R$ | 60 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 42 | V |
| Forward Continuous Current | $I_F$ | 15 | mA |
| Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s<br>@ t = 10ms | $I_{FSM}$ | 50<br>2.0 | mA<br>A |
| Power Dissipation (Note 1) | $P_d$ | 400 | mW |
| Thermal Resistance, Junction to Ambient Air (Note 1) | $R_{\theta JA}$ | 375 | K/W |
| Operating and Storage Temperature Range | $T_j$, $T_{STG}$ | -65 to +175 | °C |

## Electrical Characteristics @ $T_A$ = 25°C unless otherwise specified

| Characteristic | Symbol | Min | Typ | Max | Unit | Test Condition |
|---|---|---|---|---|---|---|
| Reverse Breakdown Voltage (Note 2) | $V_{(BR)R}$ | 60 | — | — | V | $I_R$ = 10μA |
| Reverse Leakage Current | $I_{RM}$ | — | — | 200 | nA | $V_R$ = 50V |
| Forward Voltage Drop | $V_{FM}$ | — | — | 0.41<br>1.0 | V | $I_F$ = 1.0mA<br>$I_F$ = 15mA |
| Junction Capacitance | $C_j$ | — | 2.0 | — | pF | $V_R$ = 0V, f = 1.0MHz |
| Reverse Recovery Time | $t_{rr}$ | — | 1.0 | — | ns | $I_F$ = $I_R$ = 5.0mA<br>$I_{rr}$ = 0.1 x $I_R$, $R_L$ = 100Ω |

Note: 1. Valid provided that terminals from the case are maintained at ambient temperature.
2. Test period <3000μs.




| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|---|---|---|---|---|
| | Min | Max | Min | Max |
| **A** | 1.050 | 1.250 | 0.041 | 0.049 |
| **A1** | 0.000 | 0.100 | 0.000 | 0.004 |
| **A2** | 1.050 | 1.150 | 0.041 | 0.045 |
| **b** | 0.450 | 0.650 | 0.018 | 0.026 |
| **c** | 0.080 | 0.150 | 0.003 | 0.006 |
| **D** | 1.500 | 1.700 | 0.059 | 0.067 |
| **E** | 2.600 | 2.800 | 0.102 | 0.110 |
| **E1** | 3.550 | 3.850 | 0.140 | 0.152 |
| **L** | 0.500REF | | 0.020REF | |
| **L1** | 0.250 | 0.450 | 0.010 | 0.018 |
| θ | 0° | 8° | 0° | 8° |