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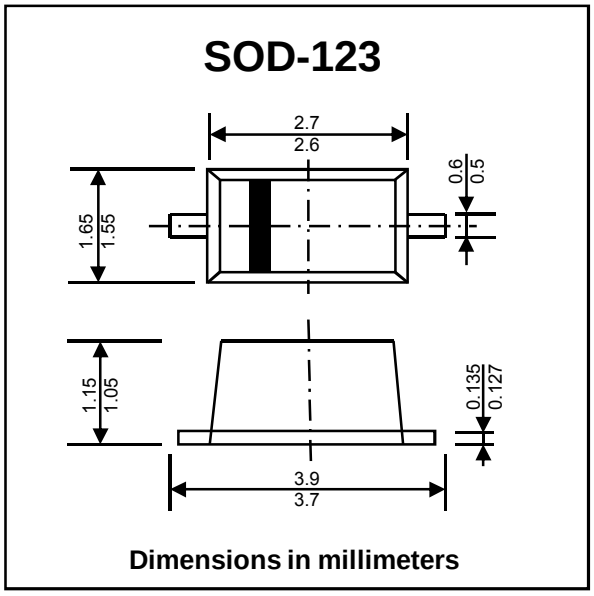
# 1N914W

# SMALL SIGNAL DIODE

## PRV : 100 Volts
## Io : 200 mA




### FEATURES :

* Fast switching diodes.
* Ultra-Small Surface Mount Package
* For General Purpose Switching Applications
* High Conductance
* Pb / RoHS Free

### MECHANICAL DATA :

* Case : SOD-123 plastic Case
* Weight : approx. 0.01 g
* Marking Code : " WJ "

### MAXIMUM RATINGS AND THERMAL CHARACTERISTICS (Ta = 25 °C)

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Repetitive Reverse Voltage | $V_{RRM}$ | 100 | V |
| Average Rectified Output Current | $I_{F(AV)}$ | 200 | mA |
| Non-Repetitive Peak Forward Surge Current @ t = 1.0 s | $I_{FSM}$ | 1.0 | A |
| @ t = 1.0 µs | | 2.0 | |
| Power Dissipation | $P_{tot}$ | 400 | mW |
| Thermal Resistance Junction to Ambient | $R_{\Theta JA}$ | 312 | °C/W |
| Junction Temperature | $T_J$ | 150 | °C |
| Storage Temperature Range | $T_{STG}$ | -55 to + 150 | °C |

### ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

| Parameter | Test Conditions | Symbol | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Breakdown Voltage | $I_R$ = 5.0 µA | $V_R$ | 75 | - | - | V |
| | $I_R$ = 100 µA | | 100 | - | - | |
| Forward Voltage | $I_F$ = 10 mA | $V_F$ | - | - | 1.0 | V |
| Peak Reverse Current | $V_R$ = 20 V | $I_R$ | - | - | 25 | nA |
| | $V_R$ = 75 V | | - | - | 5.0 | µA |
| | $V_R$ = 20 V, $T_J$ = 150 °C | | - | - | 50 | µA |
| Total Capacitance | $V_R$ = 0 V, f = 1MHz | $C_T$ | - | - | 4 | pF |
| Reverse Recovery Time | Irr = 10 mA, $I_F$ = $I_R$ =10 mA, $R_L$ = 100 Ω | Trr | - | - | 4 | ns |