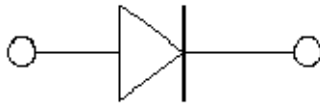


## Small-Signal Fast Switching Diodes



### Features

- $V_R$  75V
- $I_{FAV}$  150mA

### Typical Applications

- Extreme fast switches

### Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** T4

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

| PARAMETER                                  | SYMBOL          | UNIT | Conditions                          | VALUE     |
|--|-----------------|------|-------------------------------------|-----------|
| Repetitive peak reverse voltage            | $V_{RRM}$       | V    |                                     | 100       |
| Reverse voltage                            | $V_R$           | V    |                                     | 75        |
| Peak forward surge current                 | $I_{FSM}$       | A    | Pulse width=1 us<br>Pulse width=1 s | 2<br>0.5  |
| Repetitive peak forward current            | $I_{FRM}$       | mA   |                                     | 300       |
| Average forward current                    | $I_{FAV}$       | mA   |                                     | 150       |
| Power dissipation                          | $P_{tot}$       | mW   |                                     | 400       |
| Maximum junction temperature               | $T_j$           | °C   |                                     | -65 ~+150 |
| Storage temperature range                  | $T_{stg}$       | °C   |                                     | -65 ~+150 |
| Thermal Resistance Junction to Ambient Air | $R_{\theta JA}$ | °C/W |                                     | 315       |

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER               | Symbol   | UNIT    | Conditions                                    | Min | Max          |
|-------------------------|----------|---------|---|-----|--------------|
| Breakdown Voltage       | $V_R$    | V       | $I_R=10\mu A$                                 | 100 |              |
| Forward Voltage         | $V_F$    | V       | $I_F=10mA$<br>$I_F=100mA$                     |     | 1.00<br>1.25 |
| Reverse Leakage Current | $I_{R1}$ | nA      | $V_R=20V$                                     |     | 25           |
|                         | $I_{R2}$ | $\mu A$ | $V_R=75V$                                     |     | 1            |
| Capacitance             | $C$      | pF      | $V_R=0V, f=1MHz$                              |     | 4            |
| Reverse Recovery Time   | $T_{rr}$ | ns      | $I_F=I_R=10mA, I_{rr}=0.1*I_R, R_L=100\Omega$ |     | 4            |

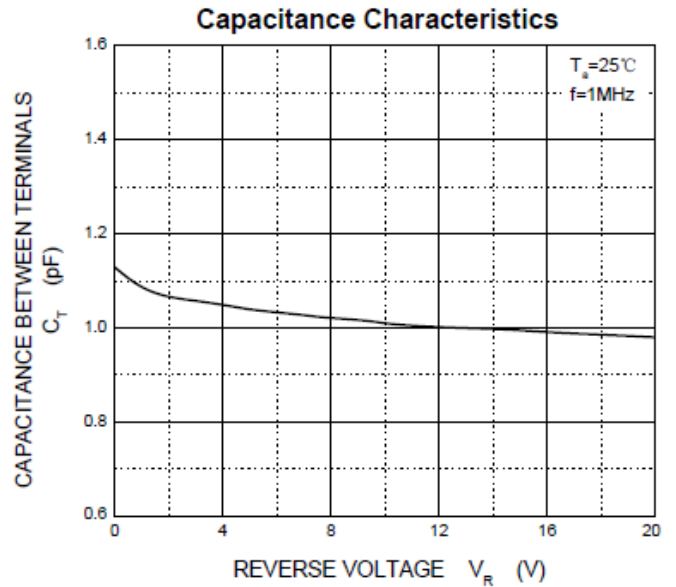
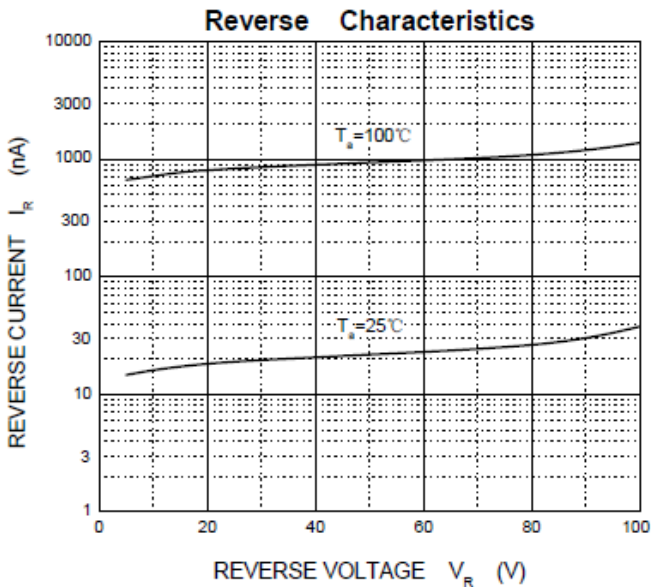
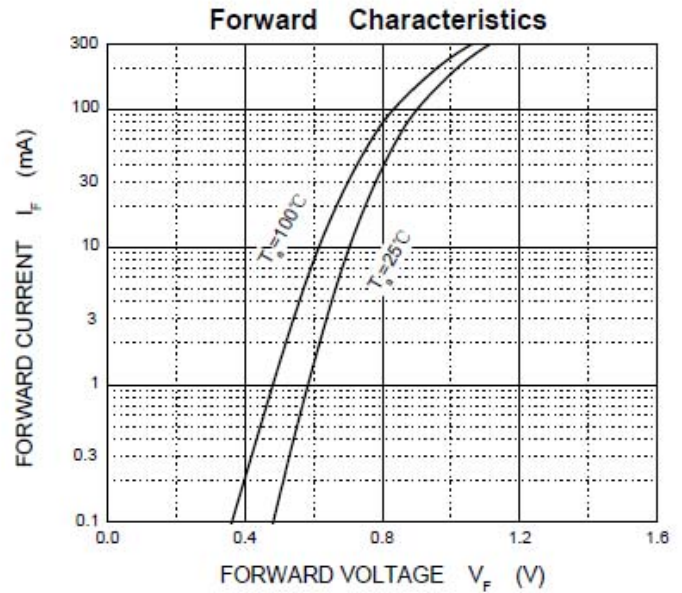
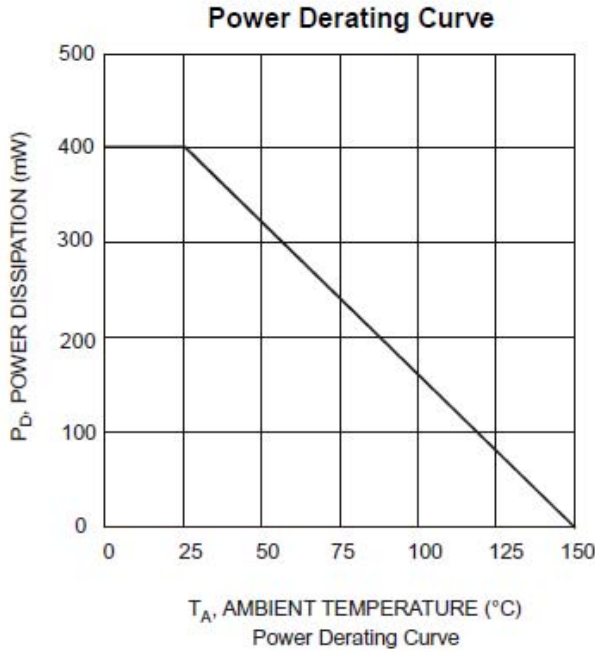


# 1N4148W

## ■ Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g)    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| 1N4148W       | F2           | Approximate 0.011 | 3000                 | 30000                   | 120000                     | 7" reel       |

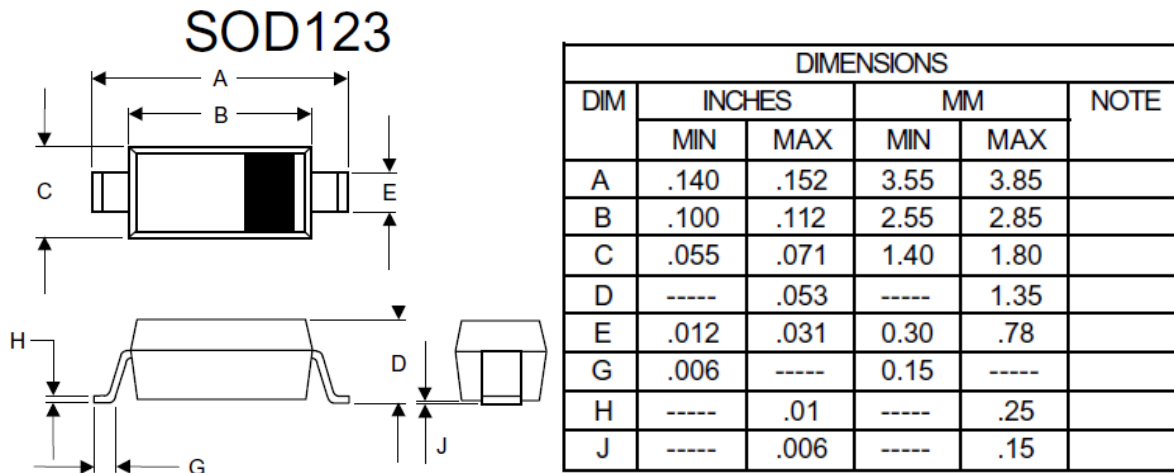
## ■ Characteristics (Typical)



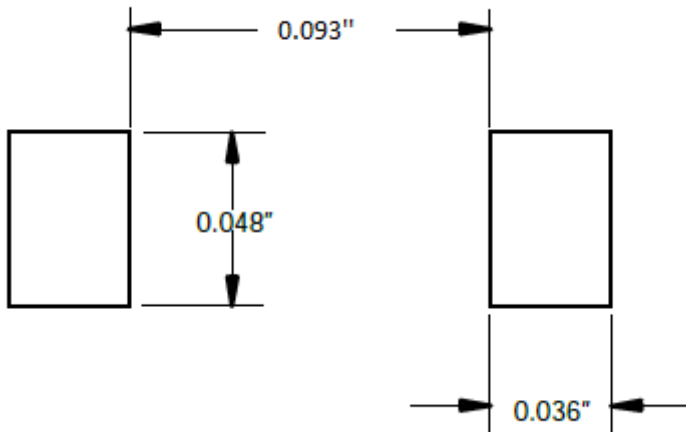


# 1N4148W

## ■ Outline Dimensions



## ■ Soldering Footprint



Unit: inch



# 1N4148W

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