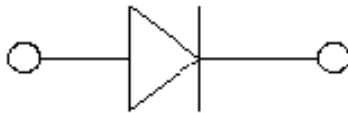


## Small-Signal Fast Switching Diodes



### Features

- $V_R$  100V
- $I_{FAV}$  200mA

### Typical Applications

- Low-Leakage

### Mechanical Data

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

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER                       | SYMBOL    | UNIT             | Conditions                         | VALUE       |
|---------------------------------|-----------|------------------|------------------------------------|-------------|
| Repetitive peak reverse voltage | $V_{RRM}$ | V                |                                    | 85          |
| Reverse voltage                 | $V_R$     | V                |                                    | 100         |
| Peak forward surge current      | $I_{FSM}$ | A                | Non-Repetitive $t = 1 \mu\text{s}$ | 4           |
| Average forward current         | $I_{FAV}$ | mA               |                                    | 200         |
| Power dissipation               | $P_{tot}$ | mW               |                                    | 250         |
| Maximum junction temperature    | $T_j$     | $^\circ\text{C}$ |                                    | 150         |
| Storage temperature range       | $T_{stg}$ | $^\circ\text{C}$ |                                    | -55 to +150 |

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER               | Symbol   | UNIT | Conditions                                                 | Min | Max  |
|-------------------------|----------|------|------------------------------------------------------------|-----|------|
| Breakdown Voltage       | $V_R$    | V    | $I_R=100\mu\text{A}$                                       | 100 |      |
| Forward Voltage         | $V_F$    | V    | $I_F=1\text{mA}$                                           |     | 0.9  |
|                         |          |      | $I_F=10\text{mA}$                                          |     | 1.0  |
|                         |          |      | $I_F=50\text{mA}$                                          |     | 1.1  |
|                         |          |      | $I_F=150\text{mA}$                                         |     | 1.25 |
| Reverse Leakage Current | $I_R$    | nA   | $V_R=75\text{V}$                                           |     | 5    |
| Capacitance             | C        | pF   | $V_R=0\text{V}, f=1\text{MHz}$                             |     | 4    |
| Reverse Recovery Time   | $T_{rr}$ | us   | $I_F=I_R=10\text{mA}, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$ |     | 3    |

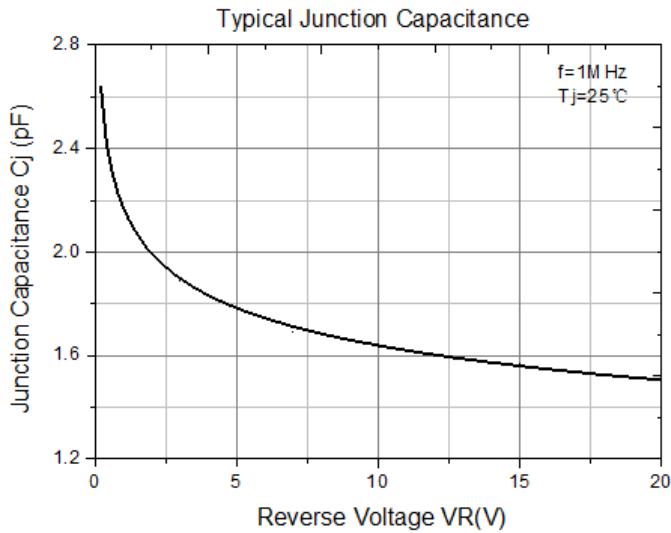
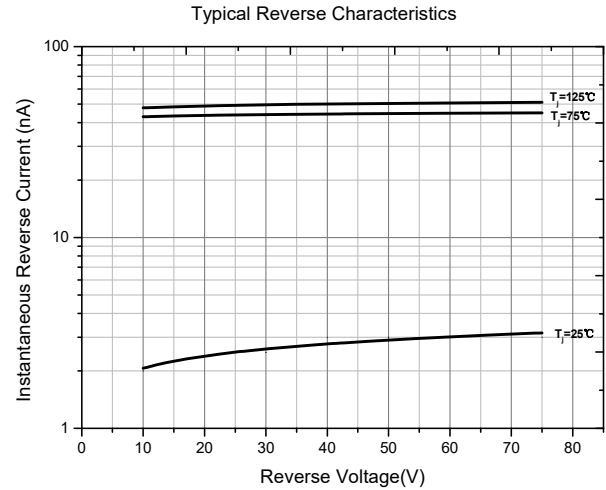
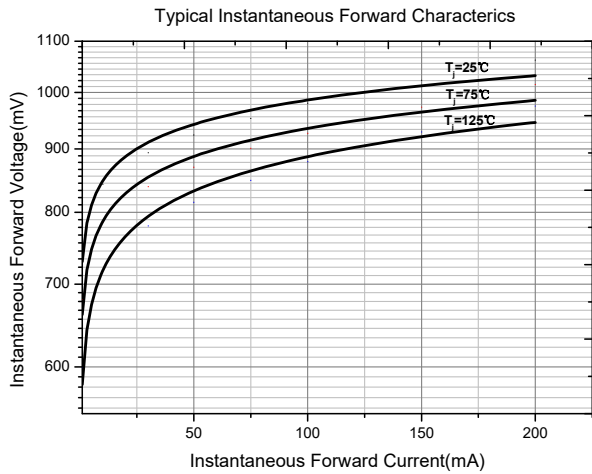


# BAV116W

## Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g)    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| BAV116W       | F2           | Approximate 0.009 | 3000                 | 30000                   | 120000                     | 7" reel       |

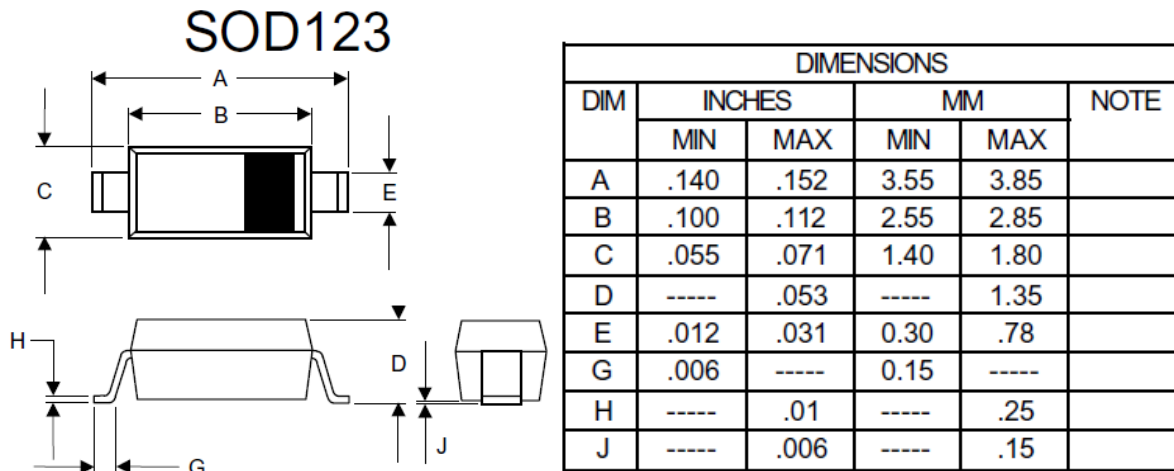
## Characteristics (Typical)



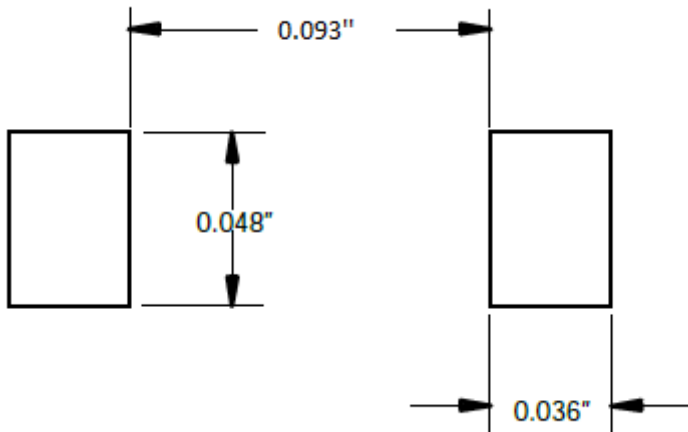


# BAV116W

## ■ Outline Dimensions



## ■ Soldering Footprint



Unit: inch



## BAV116W

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