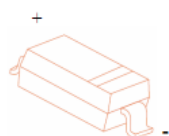


# BAV100WL THRU BAV103WL

0.255 AMP SURFACE MOUNT SILICON RECTIFIERS



## FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

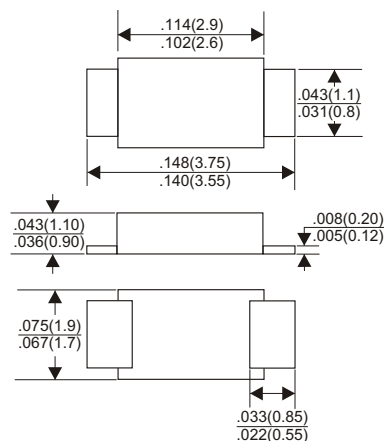
## VOLTAGE RANGE

60 - 250 Volts

## CURRENT

0.25 Ampere

### SOD123FL



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
 Single phase half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

| TYPE NUMBER                                      | BAV100WL    | BAV101WL | BAV102WL | BAV103WL | UNITS |
|--------------------------------------------------|-------------|----------|----------|----------|-------|
| Maximum Recurrent Peak Reverse Voltage           | 60          | 120      | 200      | 250      | V     |
| Maximum RMS Voltage                              | 50          | 100      | 150      | 200      | V     |
| Maximum DC Blocking Voltage                      | 60          | 120      | 200      | 250      | V     |
| Maximum Average Forward Rectified Current        | 0.25        |          |          |          | A     |
| See Fig. 1                                       |             |          |          |          |       |
| Peak Forward Surge Current @ at 1s               | 1.0         |          |          |          | A     |
| @ at 1ms                                         | 3.0         |          |          |          | A     |
| @ at 1 us                                        | 9.0         |          |          |          | A     |
| Maximum Instantaneous Forward Voltage at 100 m A | 1.00        |          |          |          | V     |
| at 200 m A                                       | 1.25        |          |          |          | V     |
| Maximum DC Reverse Current Ta=25°C               | 0.1         |          |          |          | µA    |
| at Rated DC Blocking Voltage                     |             |          |          |          |       |
| Typical Junction Capacitance                     | 5           |          |          |          | pF    |
| Total Power Dissipation                          | 500         |          |          |          | mW    |
| Maximum Reverse Recovery Time                    | 50          |          |          |          | ns    |
| Operating Temperature Range Tj                   | -55 to +150 |          |          |          | °C    |
| Storage Temperature Range Tstg                   | -55 to +150 |          |          |          | °C    |

RATING AND CHARACTERISTIC CURVES BAV100WL THRU BAV103WL

Fig.1 Forward Current Derating Curve

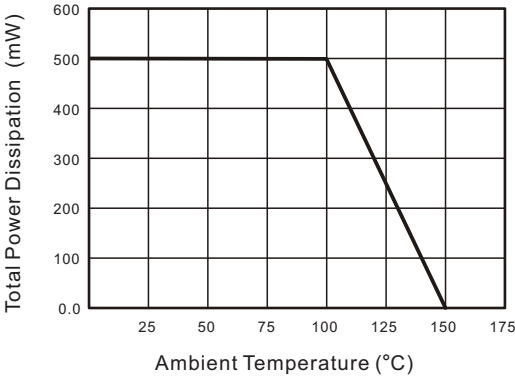


Fig.2 Typical Reverse Characteristics

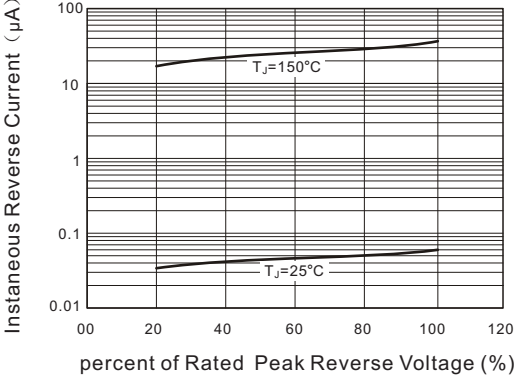


Fig.3 Typical Instaneous Forward Characteristics

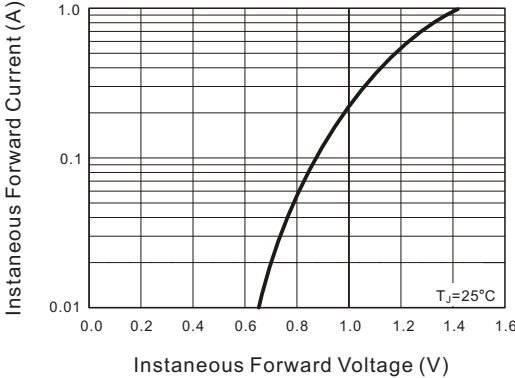


Fig.4 Typical Junction Capacitance

