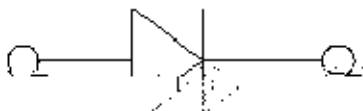
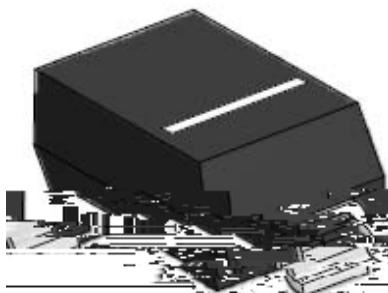




# BAV19WS THRU BAV21WS

## Small-Signal Switching Diodes



### Features

- $V_R$  100V/150V/200V
- $I_{FAV}$  200mA

### Typical Applications

- Extreme fast switches

### Mechanical Data

- **Package:** SOD-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

|         | Marking |
|---------|---------|
| BAV19WS | A8      |
| BAV20WS | T2      |
| BAV21WS | T3      |

### ■Maximum Ratings ( $T_a=25$ Unless otherwise specified)

| PARAMETER                       | SYMBOL    | UNIT | Conditions | VALUE   |     |
|---------------------------------|-----------|------|------------|---------|-----|
| Repetitive peak reverse voltage | $V_{RRM}$ | V    |            | BAV19WS | 120 |
|                                 |           |      |            | BAV20WS | 200 |

|                                            |                 |    |  |             |
|--------------------------------------------|-----------------|----|--|-------------|
| Average forward current                    | $I_{FAV}$       | mA |  | 200         |
| Power dissipation                          | $P_{tot}$       | mW |  | 250         |
| Thermal Resistance Junction to Ambient Air | $R_{\theta JA}$ | /W |  | 500         |
| Maximum junction temperature               | $T_j$           |    |  | -65 to +150 |
| Storage temperature range                  | $T_{stg}$       |    |  | -65 to +150 |

### ■Electrical Characteristics $T_a=25$ Unless otherwise specified

| PARAMETER               | SYMBOL | UNIT | Conditions  | VALUE    |
|-------------------------|--------|------|-------------|----------|
| Maximum Forward voltage | $V_F$  | V    | $I_F=100mA$ | 1.0      |
|                         |        |      | $I_F=200mA$ | 1.25B R) |

|                               |          |    |                                           |               |     |
|-------------------------------|----------|----|-------------------------------------------|---------------|-----|
|                               |          | V  | BAV19WS                                   | $I_R=10\mu A$ | 100 |
|                               |          |    | BAV20WS                                   | $I_R=10\mu A$ | 150 |
|                               |          |    | BAV21WS                                   | $I_R=10\mu A$ | 200 |
| Maximum Diode capacitance     | $C_D$    | pF | $V_R=0V, f=1MHz$                          |               | 5   |
| Maximum Reverse recovery time | $t_{rr}$ | ns | $I_F=I_R=30mA, R_L=100\Omega, I_{RR}=3mA$ |               | 50  |





## BAV19WS THRU BAV21WS

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### ■Outline Dimensions

### ΩSoldering Footprint



## BAV19WS THRU BAV21WS

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### Disclaimer

The information presented in this document is for reference only. It is not intended to be used for any other purpose.