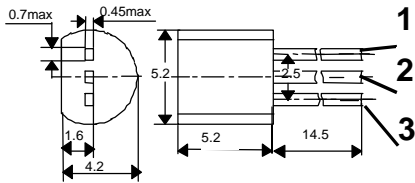


# 2N4991

Silicon bilateral switch (SBS)  
in package TO-92



## Pinouts:

1- Anode II, 2- Gate, 3- Anode I

## Ratings

| Symbol       | Parameter, units  | Limits |
|--------------|---|--------|
| $I_{T(rms)}$ | DC forward anode current, mA  | 200    |
| $I_{gm}$     | DC gate current, mA   | 5      |
| $I_{T(sm)}$  | Peak recurrent forward current, A,<br>(1% duty cycle, 10 $\mu$ sec pulse width) | 1      |
| <b>P</b>     | Power dissipation, mW   | 300    |

## Electrical Characteristics ( $T_A=25^\circ\text{C}$ )

| Symbol | Parameter, unit, test conditions                        | Limits |     |
|--------|---|--------|-----|
|        |   | min    | max |
| $V_S$  | Switching voltage, V                                    | 6      | 10  |
| $I_S$  | Switching current, $\mu\text{A}$                        |        | 500 |
| $I_H$  | Holding current, mA                                     |        | 1.5 |
| $I_B$  | Current (off-state), $\mu\text{A}$ ,<br>$V_F=5\text{V}$ |        | 0.1 |
| $V_F$  | On-State voltage, V,<br>$I_F=175\text{mA}$              |        | 1.5 |