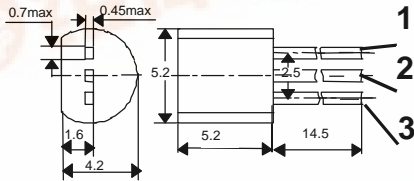


## 2N4988

Silicon unilateral switch (SUS)  
in package TO-92



### Pinouts:

1- Cathode, 2- Gate, 3- Anode

### Ratings

| Symbol       | Parameter, units  | Limits     |
|--------------|---|------------|
| $V_{rrm}$    | Peak reverse voltage, V   | -30        |
| $I_{T(rms)}$ | DC forward anode current, mA  | 175        |
| $I_{gm}$     | 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   | <b>300</b> |

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

| Symbol | Parameter, unit, test conditions                         | Limits |     |
|--------|--|--------|-----|
|        |  | min    | max |
| $V_S$  | Switching voltage, V                                     | 7.5    | 9   |
| $I_S$  | Switching current, $\mu$ A                               |        | 150 |
| $I_H$  | Holding current, mA                                      |        | 0.5 |
| $I_R$  | Revers current, $\mu$ A,<br>$V_R=-30\text{V}$            |        | 0.1 |
| $I_B$  | Forward current (off-state), $\mu$ A,<br>$V_F=5\text{V}$ |        | 0.1 |
| $V_F$  | On-State voltage, V,<br>$I_F=175\text{mA}$               |        | 1.5 |