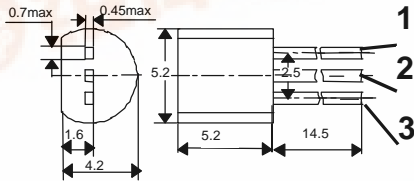


## 2N4990

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, (1% duty cycle, 10μsec pulse width)	1
P	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	7	9
$I_S$	Switching current, μA		200
$I_H$	Holding current, mA		0.75
$I_R$	Revers current, μA, $V_R=-30\text{V}$		0.1
$I_B$	Forward current (off-state), μA, $V_F=5\text{V}$		0.1
$V_F$	On-State voltage, V, $I_F=175\text{mA}$		1.5