NPN Overvoltage Protection Circuit

# A screenshot of a computer Description automatically generated

This is a simple circuit that show how the NPN Overvoltage Protection works.The voltage source is set to rise from 0V to 10V in the interval of 150ms,R4 is meant to be our load that we want to protect if the voltage exceeds 5V.When the voltage is below 5V the voltage in the yellow line is smaller than 0.7.A computer screen shot of a circuit

Description automatically generated

if the voltage of the source exceeded 5V the voltage on the yellow line will exceeds 0.7 which will make q1 transistor acts as an open circuit and no current will flow through the load(R4).