

Figure 2.1: New circuit of TransistorTester

The software can follow to another pin assignment of port D for a simpler connection of the LCD display. The following table 2.1 shows the modified assignments.

Signal	circuit diagram	strip grid board version
pushbutton input	PD7	PD0
LCD-RS	PD4	PD7
LCD-E	PD5	PD5
LCD-D4	PD0	PD4
LCD-D5	PD1	PD3
LCD-D6	PD2	PD2
LCD-D7	PD3	PD1

Table 2.1: Changes for strip grid board

For better protection of the ATmega inputs the additional circuit 2.2 can be integrated. The de-energized contacts of the relay protect the ATmega without power. The contacts will be opened by software only for measurement.

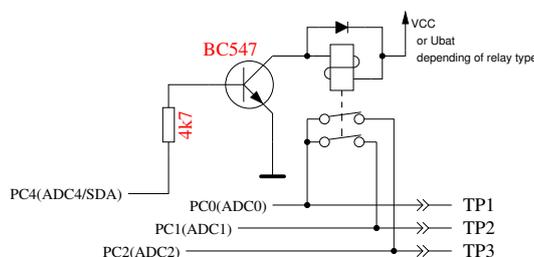


Figure 2.2: Additional protection of the ATmega inputs

If the serial output of text is not required, the Pin PC3 of the ATmega can be used as analog input for measuring a external voltage. The voltage can be up to 50V with the optional 10:1 resistor