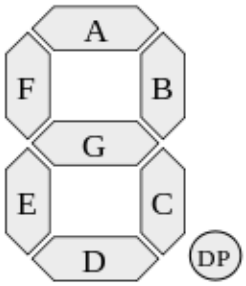
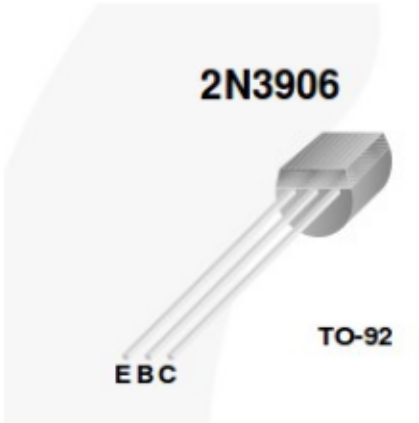
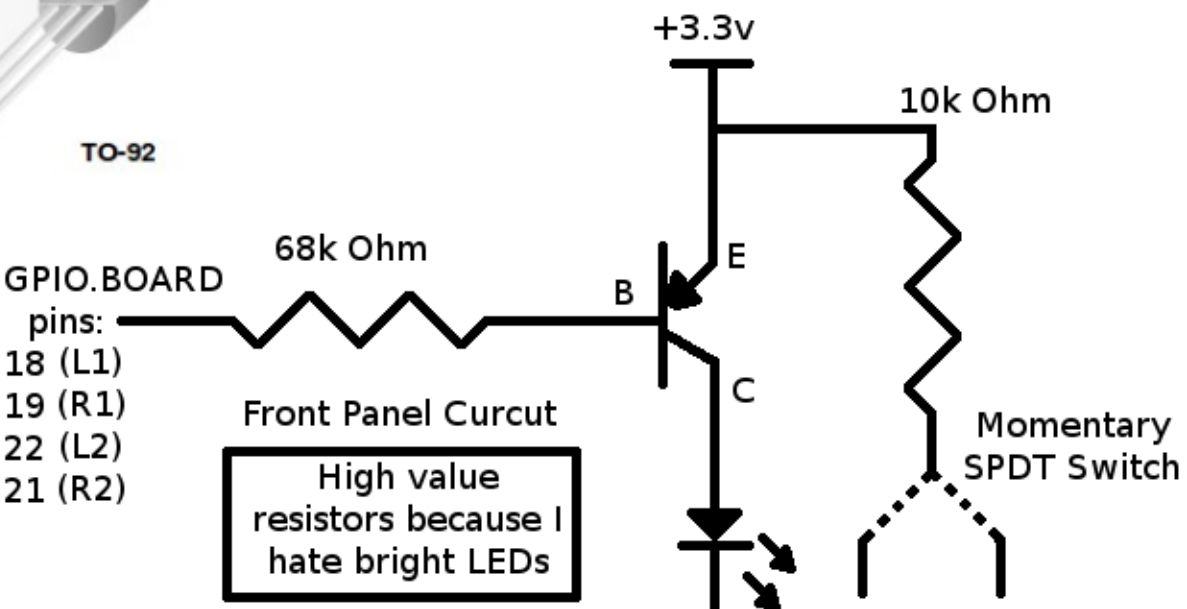
7 Segment Common Anode

Left Digit	B	C	E	D
G	DP	A	F	Right Digit







I used 2 two 7 digit segments and jumped the digits to make a 4 digit panel, the DP pin has no connection as we do not need a decimal point.

This is a crude diagram, drawing the full thing would be very redundant, but there are 4 transistors one per digit and there are 7 LEDs per digit and one resistor for each segment, each transistor turns on/off one digit and logic pins 32, 33, 36, 35, 38, 37, and 40 control which segments turn on/off
the pi turns the digit off then programs the next digit then turn that digit on for a moment and repeats this process for the next, ICs do exist that could replace this process without flickering, but they need common cathode which seemed to cost more when I got mine and the ICs are not cheap.