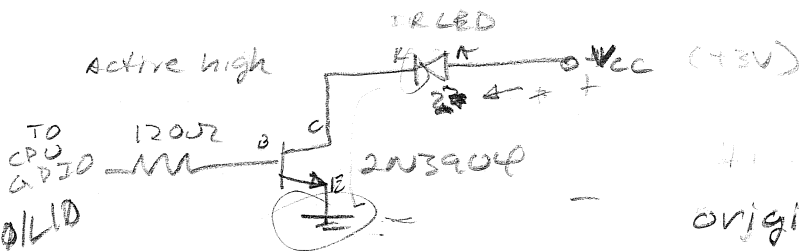


1/ Page

TVB Gone Hardware - DC18 Badge Hack

Narrow:
IR333
Wide:
IR332 / HO/LID

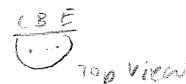


Need 4 of these to match original TVBGone

2 of the IR LEDs are wide beam and go on the outside. The other 2 are narrow beam and go on the inside

Should add large bulk decoupling capacitor to Vcc connection on IR LEDs

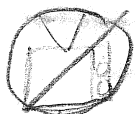
- Will need power upgrade to badge 2x AA should work



- Add JTAG connector for debugging

Software

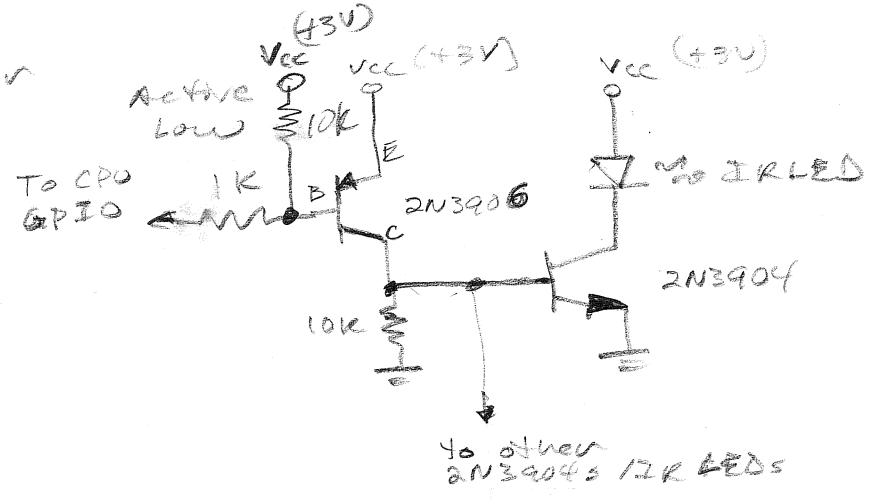
- Add new mode to existing badge firmware
- Bottom button runs 1 cycle thru all TVBGone powercodes
- when in TVBGone mode, display will show glyph of TV with the 'NOT' symbol over it



- * Need to see if code table will fit in program memory
- * Need to see how to handle timing

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or



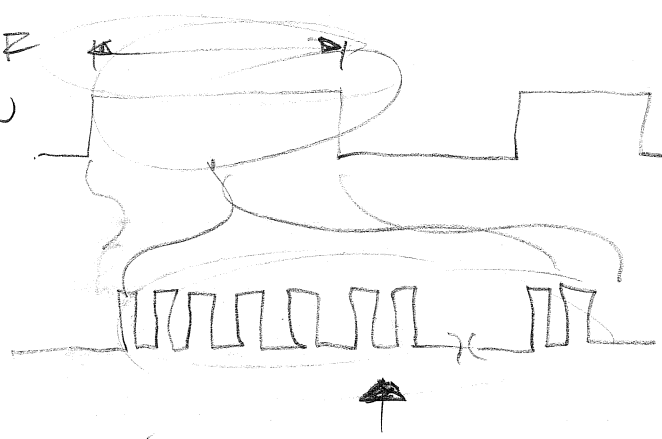
p-Code
CC

1F34
RWP

x-Data

1

3FF
RW



250 μ S

68

563

1376

5514

13753

55014

52

403

3914

34004

$$250 + 500 + 500 + 2000 + (378 \times 250) + 500$$

+250

$$4000 + 378 \times 250 = 98500$$

Serial 1 bit 1000000
Set Freq Hz 1000000
Set Period (37800)

$$6 \text{ cycles} \times 250 \mu\text{S} = 4000 \mu\text{S}!$$

Serial 1 bit 1000000
Set Freq Hz 1000000
Set Period (37800)

$$378 \times 250 = 94500$$

1

$$10 \mu\text{S} = 40$$

10

$$100 \mu\text{S} = 400$$

100

$$1000 \mu\text{S} = 4000$$

100

$$10000 \mu\text{S} = 40000$$

$$378 \times 250 = 94500$$

53
413
4011
40011

Set Period ms

sec

Set Duty ms