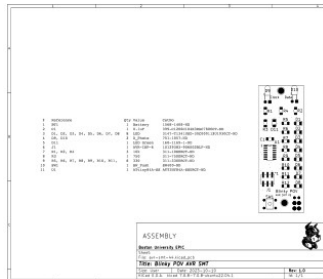# Blinky POV Kit

Assembly Notes

Rev 7/7/25

The assembly drawing is your main reference for placing components on the board. The bill of materials (parts list) includes a "Reference" column which matches the labels on the board ("R1" etc).

Docs page:
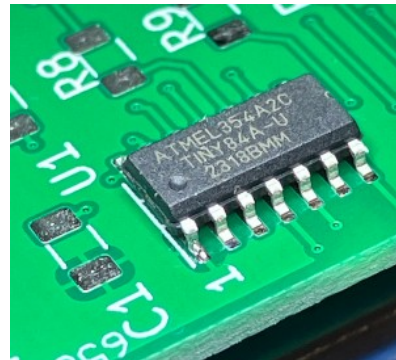https://github.com/eshazen/blinky-avr-smt

Resistors and capacitors (R and C) are reversible and can be soldered either way around.

The rest of the parts are **not** reversible and must be installed the right way around.

> Microcontroller (U1)
> LEDs (D1-D8 and D11)
> Light sensors (D9 and D10)
> Battery holder wires

U1 Orientation

Pin 1 is marked by a dimple in the top of the chip. This should go next to the number "1" on the board.
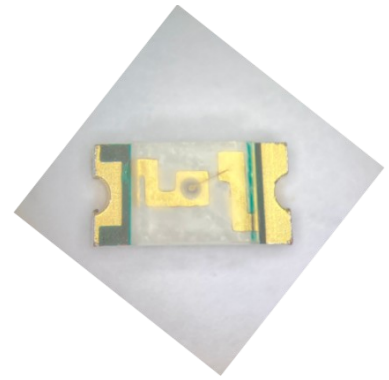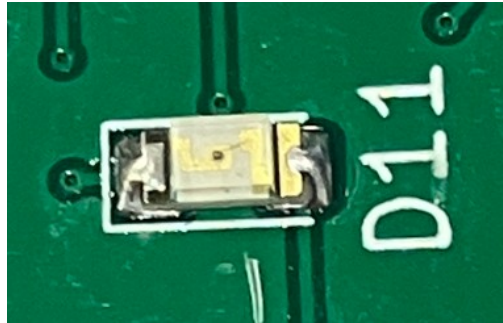
The LEDs D1-D8 should be mounted as shown. There are two types of LED... one with a small white bar which goes to the left, the other with green dots which go to the right.

They should be mounted with the white surface with a transparent window facing up.

LED D11 orientation.
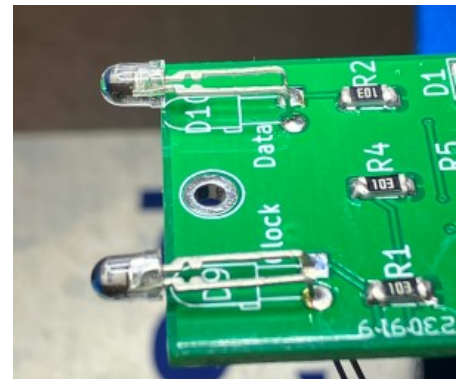You have to look closely
for this one.

LEDs are the most common
type of component to install
incorrectly!

The light sensors (D9, D10) have
leads of different lengths.
Bend and install as shown.
Long lead in left hole

Trim the extra leads off on the back

J1 is not installed

Install a two-pin header as shown for the
battery. The longer pins point **UP**.

Install the switch SW1 as shown.

Battery connects with **Red** lead to *left*