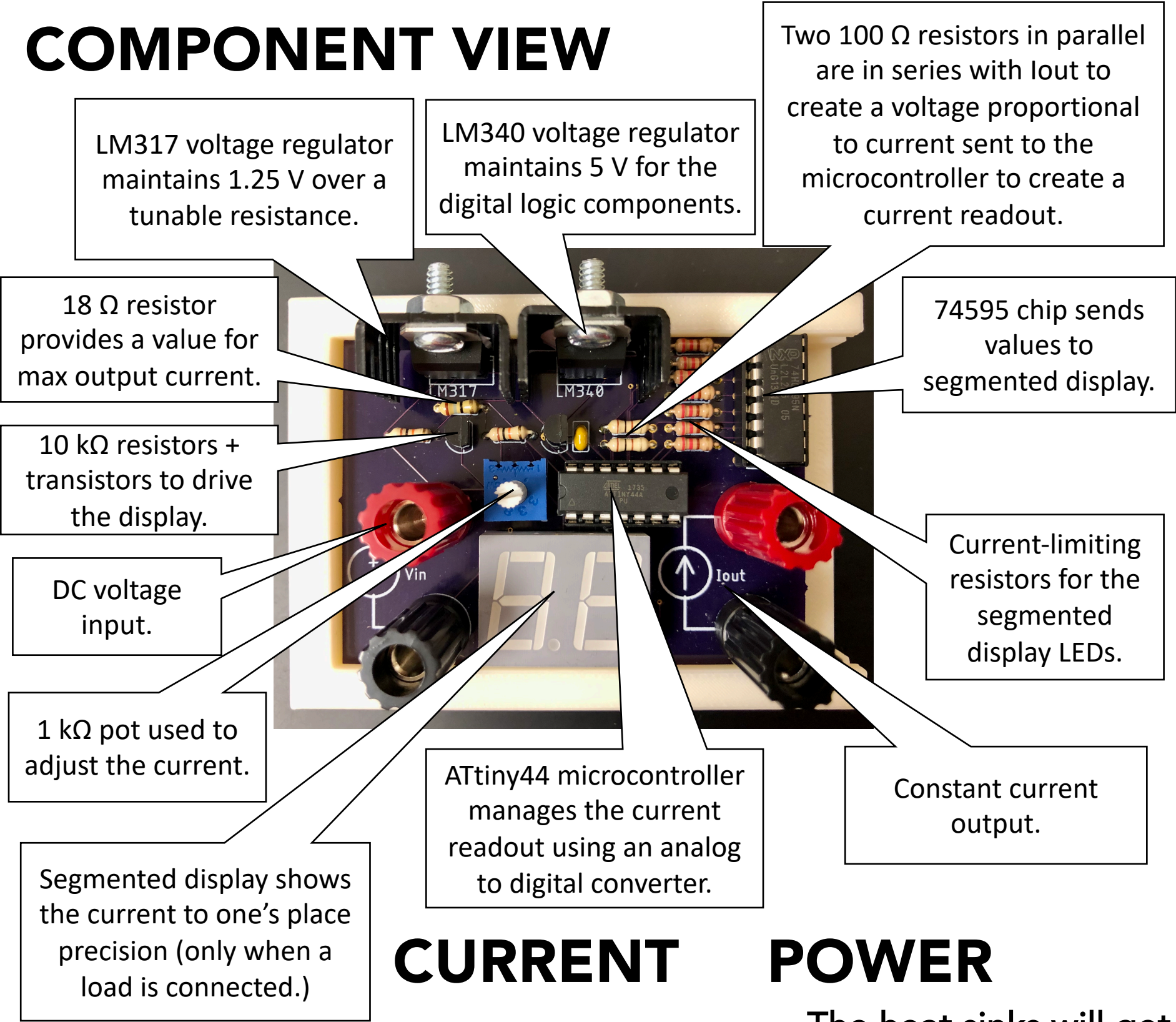


## HOW IT WORKS

A voltage regulator maintains 1.25 V over a tunable resistance, creating a variable, but constant, output current that is independent of the load circuit.

## COMPONENT VIEW



## VOLTAGE

The voltage input must be  $>7.5$  V to function.

Voltage needs to be larger ( $\geq 20$  V) for large values of output current.

## CURRENT

The current reading displays a value only when connected to a load.

Use an ammeter in series with the output to obtain a precise value.

$$I_{OUT} = \frac{1.25}{18 + R_{POT}}$$

## POWER

The heat sinks will get hot for large currents!

Any load resistors in series must be small enough to satisfy...

$$R < \frac{0.25}{I^2}$$

...where R is in  $\Omega$  and I in A.