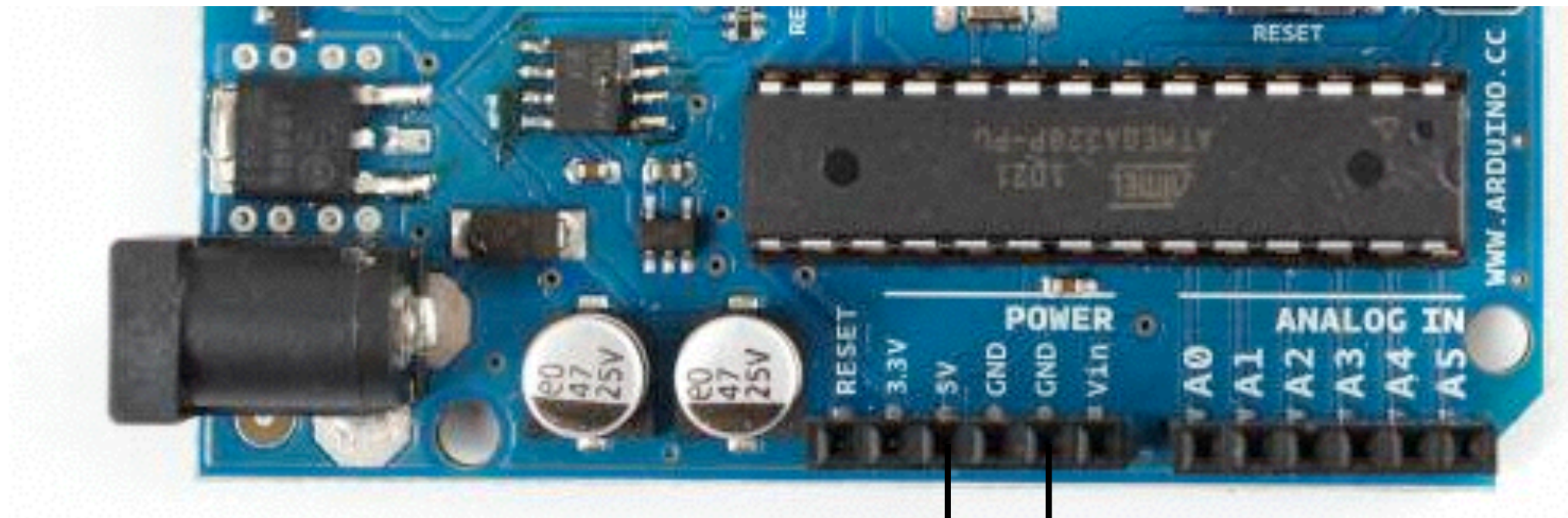


$$V = IR$$

- Ohm's Law: voltage = current times resistance
- Equivalently: $I = V/R$



$$V = 5V$$
$$R = 330\Omega$$

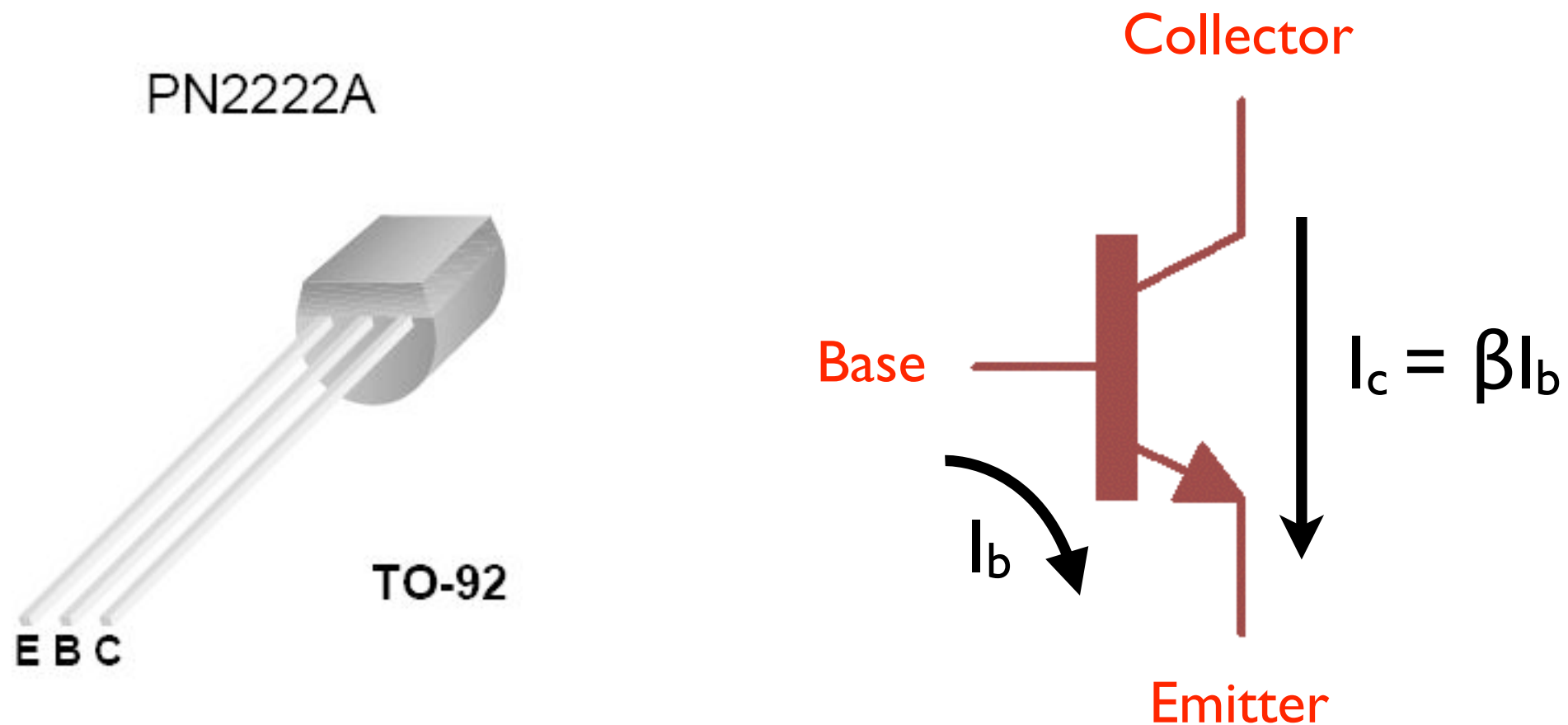


$$I = 5V / 330\Omega$$

$$I = .015A = 15mA$$

Transistors

(and power!)



Transistors are *current amplifiers*: a small **base current** controls a large **collector current**

Transistor + Motor

