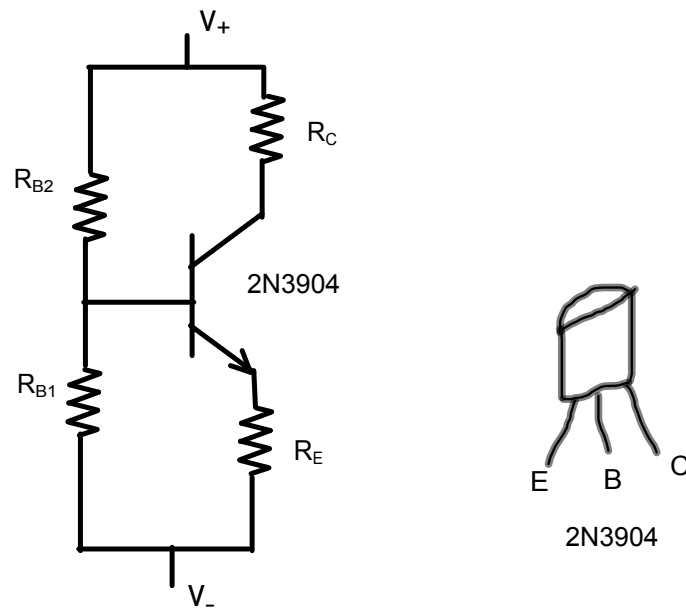


## Measuring Transistor Parameters

Consider the following circuit using the 2N3904 NPN transistor.



Looking

at the flat side of the transistor the pins from left to right are E (emitter), B (base), and C (collector). The transistor is powered by about -15 volts. Resistor  $R_C$  connects the collector to the positive side of the power supply, which is called  $v_+$ . Resistor  $R_E$  connects the negative side of the power supply, which is called  $v_-$ , to the emitter. A pair of resistors in series,  $R_{B2}$  and  $R_{B1}$ , connect  $v_+$  to  $v_-$ . The center point of the pair is connected to the base of the 2N3904. These resistors form a voltage divider.