

E151 Lecture 4 Handout

What are the two types of Bipolar Junction Transistors (BJTs)

What is the difference between the two junctions in a BJT?

What are the three terminals of a BJT? What does the emitter emit?

How is an npn BJT different from back-to-back diodes?

Why does a BJT amplify current?

What are the regions of operation for a BJT and under what voltage conditions is a BJT in each?

Draw an I_c - V_{ce} curve for a BJT parametrized in V_{be} .

Draw a large signal model of the BJT in the forward active region and the saturation region.