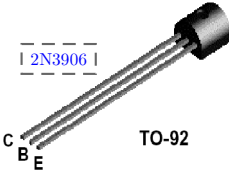
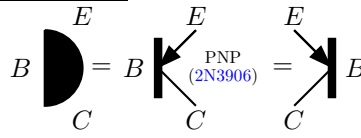

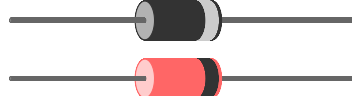
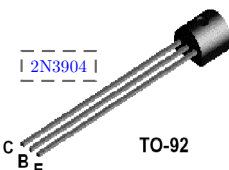
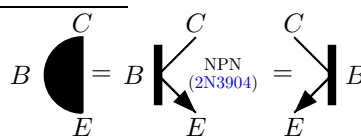
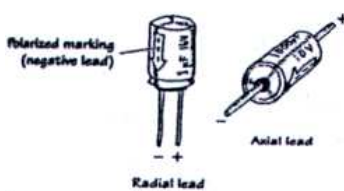




Part Pin-outs

Lab 1: The Bipolar Transistor

ECE 327: *Electronic Devices and Circuits Laboratory I*

 <p>2N3906 TO-92</p>	<p>Top view of 2N3906</p>  <p>2N3906 PNP BJT transistor</p>	<p>“Points iN Proudly”</p> <div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: auto;"> $V_{BE} \approx 0.65\text{ V}$ $V_{CE, \text{saturation}} \approx 0.2\text{ V}$ $\beta \approx 100$ </div>
<p>“ACE” — “Anode Current Enters” “CCD” — “Cathode Current Departs”</p>	<p>Anode (+)  Cathode (-)</p> 	<div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: auto;"> $\sim 0.6\text{ V @ } 1\text{ mA}$ $\sim 0.7\text{ V @ } 10\text{ mA}$ </div>
 <p>2N3904 TO-92</p>	<p>Top view of 2N3904</p>  <p>2N3904 NPN BJT transistor</p>	<p>“Not Pointing iN”</p> <div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: auto;"> $V_{BE} \approx 0.65\text{ V}$ $V_{EC, \text{saturation}} \approx 0.2\text{ V}$ $\beta \approx 100$ </div>
<p>Electrolytic</p>  <p>Polarized marking (negative lead) Radial lead Axial lead</p>	<p>“ACE” — “Anode Current Enters” “CCD” — “Cathode Current Departs”</p> <p>(Anode) +  (Cathode) -</p> <p>Electrolytic capacitor</p>	 <p>100MF 16V</p>