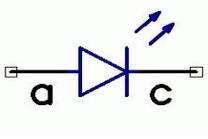
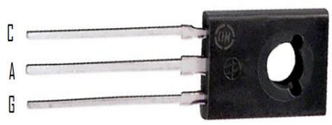
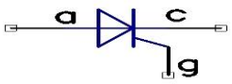
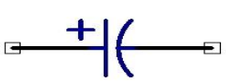
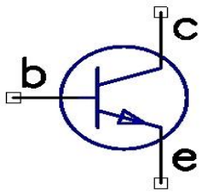
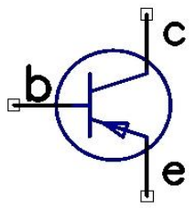
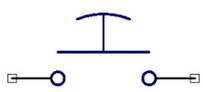
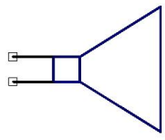
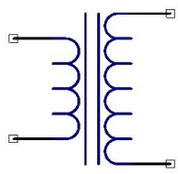
Electronic Components and their symbols

Name	Part	Symbol
Battery - a portable power source. Most circuit that we will work with use 9 volts.		
LED - (Light Emitting Diode) An LED gives off light when electricity flows through it. It has a positive (anode) and negative (cathode) side to it. It will not work if put in backwards.		
Resistor - a component used to control the amount of electricity flowing in a circuit.		
Potentiometer - variable resistor, as you turn the knob, the resistance changes from 0 ohms (no resistance) to it's maximum value (lots of resistance)		
Photocell - a special kind of resistor that reacts to light. The more light that hits it, the less resistance it has.		
Diode - a diode is a device that allows current to flow through it in ONE direction only. There are two Leads. The anode and cathode.		
SCR - allows current to flow through it ONLY after a positive voltage is applied to the gate.		
Disc Capacitor - a device used to store energy much like a battery. Can be charged and discharged over and over. A Ceramic capacitor stores small amounts of energy.		
Electrolytic Capacitor - a device used to store energy much like a battery. Can be charged and discharged over and over. Electrolytic capacitors store large amounts of electricity. Has a positive and negative like a battery.		

NPN Transistor - the transistor works as a current amplifier. It uses a small base current to control a larger current.		
PNP Transistor - the transistor works as a current amplifier. It uses a small base current to control a larger current.		
Push Switch - a device that is used to turn ON and OFF the flow of electricity to a circuit. A switch is either open or closed. When a switch is closed, the electricity flows.		
Toggle Switch - a device that is used to turn ON and OFF the flow of electricity to a circuit. A switch is either open or closed. When a switch is closed, the electricity flows.		
Touch Switch - two pieces of wire so that when you touch them with your finger it completes a circuit for electricity to flow.		
Speaker - A pulsating device that converts electricity into sound waves.		
Audio Transformer - An electrical device that either raises or lowers the voltage of electricity		
Integrated Circuit - a divice that has several components (transistors, resistors, capacitors, diodes, etc) condensed into a very small package. Each IC performs differently according to what is inside.