

Electronic components

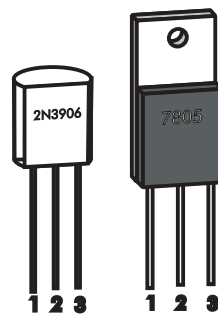
Pin Identification

Transistors

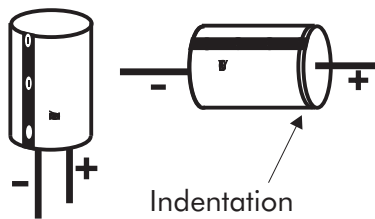
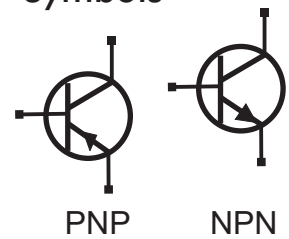
Transistors and other devices such as triacs or voltage regulators have three pins which are numbered from left to right when the label is facing the front. The pin assignments vary: consult the specification sheet.

Some common examples:

2N3906 and 2N3904	1-E	2-B	3-C
7805	1-In	2-Gnd	3-Out



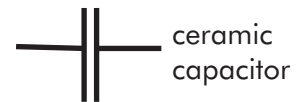
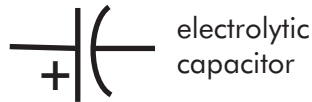
Symbols



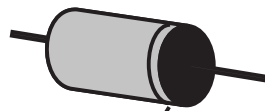
Indentation

Capacitors

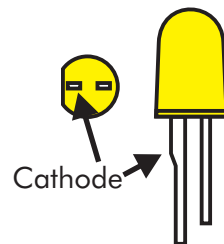
Only electrolytic capacitors have a polarity. It is usually marked as shown.



Diodes

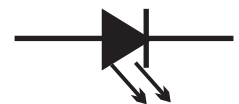


Stripe indicates Cathode



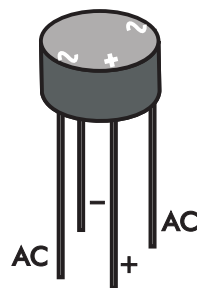
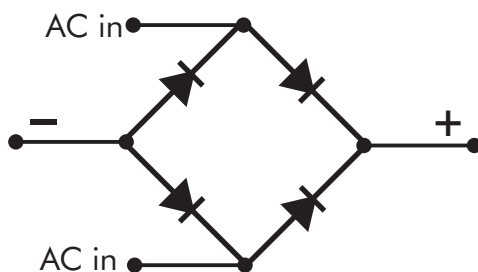
LED

The Cathode of an LED is marked by a flat surface on the case.



Bridge Rectifier

The four pins of the bridge rectifier are always arranged in the same order, + and - are opposite, and the other two pins are AC inputs. Often only the + is marked.



Integrated Circuit

The pins of an integrated circuit DIP package are numbered counter-clockwise around the chip. Pin 1 is indicated by a dot or semi-circular indentation.

