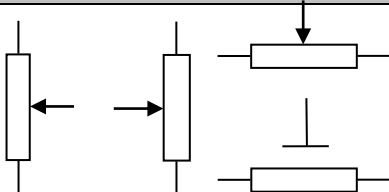
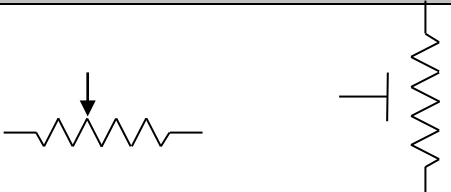
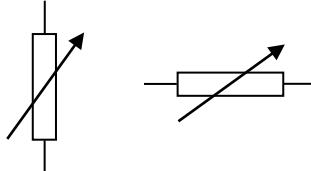

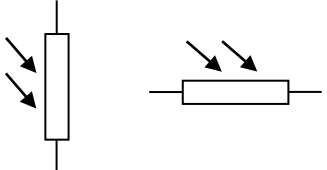
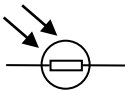
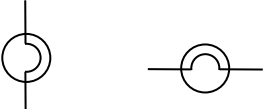

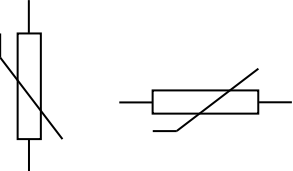
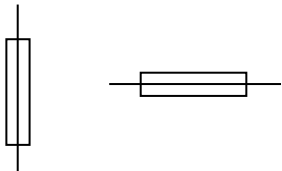
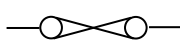
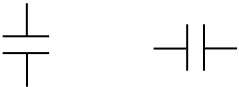



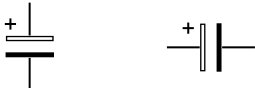
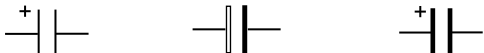
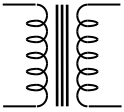
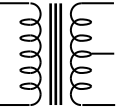
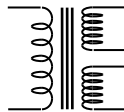



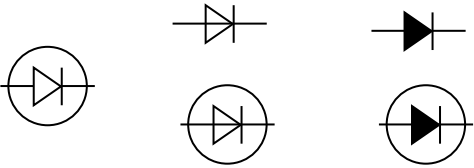
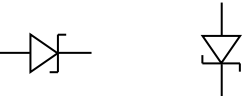
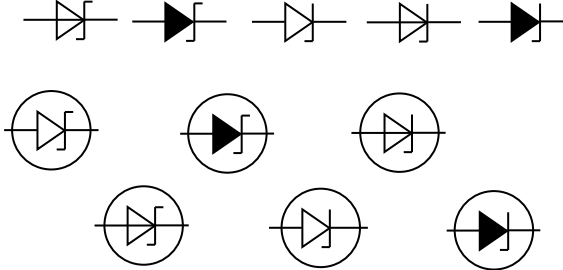
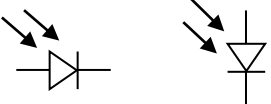
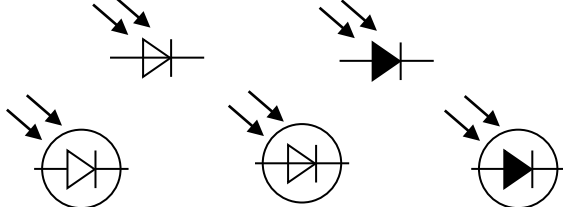
## Electric and electronic symbols for VCE Physics and VCE Systems Engineering

For each component a **recommended symbol** is shown in its normally accepted orientation/s, i.e. vertically and/or horizontally. In electronics there is a longstanding convention to show most components with a vertical orientation and for the circuit to read from the source or input on the left to the output or remaining circuit on the right. Other **alternative symbols** that may be encountered are also shown. **Notes** include relevant acceptance of symbol.

Component group	Component	Recommended symbol	Alternative symbols	Notes
sources	cell			
	battery, DC power supply			
	variable DC power supply			
	AC power supply			
resistors	resistor			Alternative symbol now regarded as outdated.

Component group	Component	Recommended symbol	Alternative symbols	Notes
	variable resistor, potentiometer, voltage divider			A variable resistor where the variation is achieved by use of a sliding contact.
	variable resistor			A general symbol for a variable resistor where the means of variation is not specified.
	light-dependent resistor (LDR)			
	filament globe			
	thermistor			
	fuse			

Component group	Component	Recommended symbol	Alternative symbols	Notes
capacitors	(non-polarised) capacitor			
	variable capacitor			
	polarised capacitor, electrolytic capacitor			
transformers	iron-cored transformer (one secondary winding)			
	iron-cored transformer (one secondary winding – centre-tapped)			
	iron-cored transformer (two secondary windings)			

Component group	Component	Recommended symbol	Alternative symbols	Notes
diodes	junction diode			Additional alternative symbols for <b>all diodes</b> include those where the single straight-line section of the symbol is shown as a heavier line.
	Zener diode			
	photo diode			
	light-emitting diode (LED)	