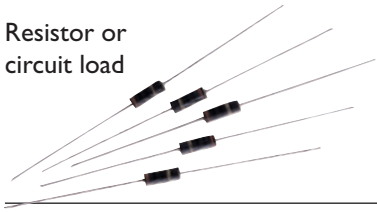
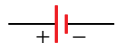
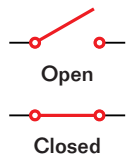
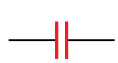
Table 1 Schematic-Diagram Symbols

Component	Symbol used in this book	Other forms of this symbol	Explanation
Wire or conductor 			• Wires that connect elements are conductors. • Because wires offer negligible resistance, they are represented by straight lines.
Resistor or circuit load 			• Resistors are shown having multiple bends, illustrating resistance to the movement of charges.
Bulb or lamp 			• The multiple bends of the filament indicate that the light bulb behaves as a resistor. • The symbol for the filament of the bulb is often enclosed in a circle to emphasize the enclosure of a resistor in a bulb.
Plug 			• The plug symbol looks like a container for two prongs. • The emf between the two prongs of a plug is symbolized by lines of unequal length.
Battery 		 Multiple cells	• Differences in line length indicate a potential difference between positive and negative terminals of the battery. • The longer line represents the positive terminal of the battery.
Switch  Open  Closed	 Open Closed		• The small circles indicate the two places where the switch makes contact with the wires. Most switches work by breaking only one of the contacts, not both.
Capacitor 			• The two parallel plates of a capacitor are symbolized by two parallel lines of equal length. • One curved line indicates that the capacitor can be used with only direct current sources with the polarity as shown.