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semiconductor device is an electronic component that relies on the electronic properties of a semiconductor material primarily silicon germanium and gallium arsenide as well as organic semiconductors for its function its conductivity lies between conductors and insulators

semiconductor device electronic circuit component made from a material that is neither a good conductor nor a good insulator hence semiconductor such devices have found wide applications because

semiconductor is a material that has an electrical conductivity value falling between that of a conductor such as copper and an insulator such as glass its resistivity generally falls as its temperature rises metals behave in the opposite way

semiconductor any of a class of crystalline solids intermediate in electrical conductivity between a conductor and an insulator semiconductors are employed in the manufacture of various kinds of electronic devices including diodes transistors and integrated circuits

semiconductors are the brains of modern electronics semiconductors are an essential component of electronic devices enabling advances in communications computing healthcare military systems transportation clean energy and countless other applications

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