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diodes are basic unidirectional semiconductor devices that will only allow current to flow through them in one direction only acting more like a one way electrical valve forward biased condition but before we have a look at how signal or power diodes work we first need to understand the semiconductors basics of construction and concept the diode is our first semiconductor device the diode s distinctive feature is that it conducts current in one direction but not the other we won t go into the details of how a diode does this or how it s made fortunately you don t have to know how to make a diode before using it in a circuit a semiconductor diode the most commonly used type today is a crystalline piece of semiconductor material with a p n junction connected to two electrical terminals 4 it has an exponential current voltage characteristic semiconductor diodes were the first semiconductor electronic devices one of the most widely used semiconductor components is the diode in this tutorial we ll cover what is a diode theory of diode operation important diode properties different types of diodes what diodes look like typical diode applications suggested reading some of the concepts in this tutorial build on previous electronics knowledge best tutorial about conductors insulators basics of semiconductor diodes silicon atom structure p type and n type semiconductor doping a diode is the simplest possible semiconductor device and is therefore an excellent beginning point if you want to understand how semiconductors work in this article you ll learn what a semiconductor is how doping works and how a diode can be created using semiconductors but first let s take a close look at silicon

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