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the schottky diode is a type of metal semiconductor junction diode which is also known as hot carrier diode low voltage diode or schottky barrier diode the schottky diode is formed by the junction of a semiconductor with a metal schottky diode offers fast switching action and has a low forward voltage drop what is a schottky diode schottky diode is a type of semiconductor diode that is formed by the junction of metal with a semiconductor the electric current is formed only due to the majority carrier it is also known as a hot carrier or schottky barrier diode it is named after german physicist named walter h schottky a schottky barrier named after walter h schottky is a potential energy barrier for electrons formed at a metal semiconductor junction schottky barriers have rectifying characteristics suitable for use as a diode one of the primary characteristics of a schottky barrier is the schottky barrier height denoted by Φ_b see figure the value of Φ_b depends on the the schottky diode named after the german physicist walter h schottky also known as schottky barrier diode or hot carrier diode is a semiconductor diode formed by the junction of a semiconductor with a metal it has a low forward voltage drop and a very fast switching action the cat s whisker detectors used in the early days of wireless and metal rectifiers used in early schottky diodes rectifiers a schottky diode sometimes referred to as a barrier diode or a hot carrier diode is metal semiconductor with a fast switching action and an accompanying low forward voltage drop with a small voltage drop across the terminals when current flows through the diode where a standard diode has a voltage drop between 0.6 and 1.7 volts a schottky s schottky transistor device structure a schottky transistor is a combination of a transistor and a schottky diode that prevents the transistor from saturating by diverting the excessive input current it is also called a schottky clamped transistor the schottky diode is a type of metal semiconductor diode having a low forward voltage drop and a very fast switching speed the schottky diode is another type of semiconductor diode which can be used in a variety of wave shaping switching and rectification applications the same as any other junction diode schottky anomaly in condensed matter physics schottky noise in electronics described mathematically by walter h schottky and also known as shot noise this disambiguation page lists articles associated with the title schottky if an internal link led you here you may wish to change the link to point directly to the intended article a metal semiconductor junction formed between a metal and n type semiconductor creates a barrier or depletion layer known as a schottky barrier schottky diode can switch on and off much faster than the p n junction diode also the schottky diode produces less unwanted noise than p n the schottky anomaly is an effect observed in solid state physics where the specific heat capacity of a solid at low temperature has a peak it is called anomalous because the heat capacity usually increases with temperature or stays constant it occurs in systems with a limited number of energy levels so that c_v increases with sharp

steps

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