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CHARACTERISTICS: 1. Connections  
are made as per the circuit diagram. 2.

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The Regulated power supply voltage is increased in steps. 3. The voltage across the diode ( $V_z$ ) remains almost constant although the current through the diode increases.

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transistors such as the power MOSFET and IGBT. In contrast to electronic systems concerned with transmission and processing of signals and data, in power electronics substantial amounts of electrical

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Definition of Power Electronics You  
might have already guessed what  
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Electronics is the subject that deals with the study of electronic circuits and devices but at high voltage or high power (i.e. at power level). i.e. Power Electronics = Electronics applied at Power-level. Some Power Electronics devices are:

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**Rashid, Power Electronics: Circuits,  
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A research team led by Alex Zettl, senior faculty scientist in Berkeley Lab's Materials Sciences Division and professor of physics at UC Berkeley, has developed a new technique for fabricating tiny circuits from ultrathin materials for next-generation electronics, such as rewritable, low-

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The research focus in the integrated Power Electronics and Energy-



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**Research – integrated Power  
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The conversion of AC into DC is called Rectification. Electronic Devices can convert AC power into DC power with

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high efficiency. Consider the given circuit. Assume the diode to be ideal i.e.,  $V_f = 0$ ,  $R_r = \text{Infinite}$ ,  $R_f = 0$ . During the positive half cycle, the diode is forward biased and it conducts and hence a current flows through the load ...

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