

Chapter 3

Diodes, Problem Solutions

3.2 Problem 3.44

A square-wave source with 10 V peak-to-peak amplitude and zero average is applied to a circuit resembling that in Figure 3.43 and producing a 500 mA average. Assuming an ideal diode, what is the peak output voltage (in volts)? What is the peak diode current? What is the average diode current? What is the maximum average voltage across the diode?

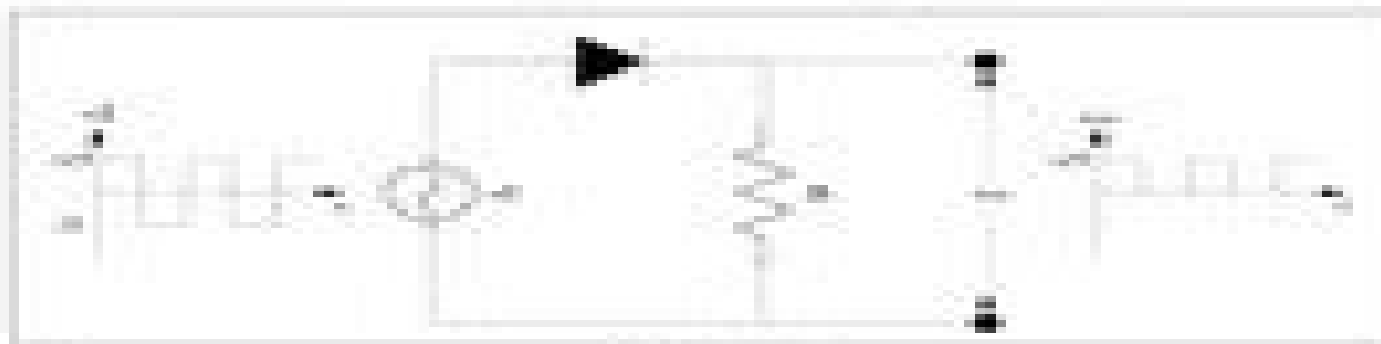


Figure 3.43

3a Solution

The peak output voltage is

$$V_{p, \text{out}} = 10 \text{ V}$$

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