

This Book



Electronic Devices
and Integrated
Circuits

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4.9. SOLVED PROBLEMS

1. Determine the peak and rms voltages on the secondary of a transformer connected across a bridge rectifier to provide a no load dc voltage of 9 V. If the secondary winding resistance is 3 Ω and dynamic resistance of each diode is 1 Ω , determine the dc output across a load resistance of 100 Ω and 1 K. Also determine the regulation.

Solution:

$$r_s = 3 \Omega, r_d = 1 \Omega, R_L = 100 \Omega, V_{dc} = \frac{2V_m}{\pi}$$

$$V_m = \frac{9\pi}{2} = 14.14 \text{ V}$$

$$V_{rms} = \frac{V_m}{\sqrt{2}} = \frac{14.14}{1.414} = 10 \text{ V}$$

$$I_m = \frac{V_m}{r_s + 2r_d + R_L} = \frac{14.14}{100} = 0.135 \text{ A}$$

$$I_{dc} = \frac{2I_m}{\pi} = \frac{2 \times 0.135}{\pi} = 86.45 \text{ mA}$$

$$V_{dc} = I_{dc}R_L = 86.56 \times 10^{-3} \times 100 = 8.66 \text{ V}$$

$$V_{dc}(\text{full load}) = \frac{2V_m}{\pi} \left(1 - \frac{r_s + 2r_d}{r_s + 2r_d + R_L} \right)$$

$$= 8.57 \text{ V} = 8.6 \text{ V}$$

$$\text{Regulation} = \frac{9 - 8.6}{8.6} = 4.6\%$$

2. A 220 V, 60 Hz voltage is applied to a centre tapped step-down transformer of 22: 1 with a load of 1 K connected across the output of two-diode full-wave rectifier. Assume diodes to be ideal. If the resistance of half-secondary winding is 0.5 Ω , determine the (a) peak, rms and dc voltages, (b) peak, rms and dc currents, (c) dc power delivered to the load, (d) VA rating of the transformer secondary, (e) ac input to transformer assuming it to be 80% efficient, (f) ac ripple voltage across the load and its frequency, (g) How much is the PIV of each diode if the circuit is changed to a bridge rectifier using the full secondary winding of the same transformer? (h) How much are the peak, rms, dc voltages?

Solution:

$$(a) V_m (\text{between full secondary}) = 10\sqrt{2} = 14.14 \text{ V}$$

$$V_{rms} (\text{full secondary}) = 10 \text{ V}, V_m (\text{half secondary}) = 7.07 \text{ V}$$

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