

Chapter 2

$$19. \quad \text{PTV} = V_p = \frac{\pi V_{\text{sat(max)}}}{2} = \frac{\pi(50 \text{ V})}{2} = 78.5 \text{ V}$$

$$20. \quad \text{PTV} = V_{\text{sat(max)}} = 1.414(20 \text{ V}) = 28.3 \text{ V}$$

21. See Figure 2-4.



Figure 2-4

Section 2-6 Power Supply Filters and Regulators

$$22. \quad V_{\text{ripple}} = 0.5 \text{ V}$$

$$r = \frac{V_{\text{ripple}}}{V_{\text{DC}}} = \frac{0.5 \text{ V}}{7.5 \text{ V}} = 0.00667$$

$$23. \quad V_{\text{ripple}} = \frac{V_{\text{sat(max)}}}{fR_L C} = \frac{30 \text{ V}}{(120 \text{ Hz})(600 \Omega)(50 \mu\text{F})} = 8.33 \text{ V pp}$$

$$V_{\text{DC}} = \left(1 - \frac{1}{2fR_L C}\right)V_{\text{sat(max)}} = \left(1 - \frac{1}{(240 \text{ Hz})(600 \Omega)(50 \mu\text{F})}\right)30 \text{ V} = 25.8 \text{ V}$$

$$24. \quad \%r = \left(\frac{V_{\text{ripple}}}{V_{\text{DC}}}\right)100 = \left(\frac{8.33 \text{ V}}{25.8 \text{ V}}\right)100 = 32.3\%$$

$$25. \quad V_{\text{ripple}} = (0.01)(18 \text{ V}) = 180 \text{ mV}$$

$$V_{\text{ripple}} = \left(\frac{1}{fR_L C}\right)V_{\text{sat(max)}}$$

$$C = \left(\frac{1}{fR_L V_r}\right)V_{\text{sat(max)}} = \left(\frac{1}{(120 \text{ Hz})(1.5 \text{ k}\Omega)(180 \text{ mV})}\right)18 \text{ V} = 556 \mu\text{F}$$

$$26. \quad V_{\text{ripple}} = \frac{V_{\text{sat(max)}}}{fR_L C} = \frac{80 \text{ V}}{(120 \text{ Hz})(10 \text{ k}\Omega)(10 \mu\text{F})} = 6.67 \text{ V}$$

$$V_{\text{DC}} = \left(1 - \frac{1}{2fR_L C}\right)V_{\text{sat(max)}} = \left(1 - \frac{1}{(240 \text{ Hz})(10 \text{ k}\Omega)(10 \mu\text{F})}\right)80 \text{ V} = 76.7 \text{ V}$$

$$r = \frac{V_{\text{ripple}}}{V_{\text{DC}}} = \frac{6.67 \text{ V}}{76.7 \text{ V}} = 0.087$$

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Thomas L. Floyd



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