作业纸

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10-5

1. UO(AV) = 0.9 U2 = 0.9 ×20 V=18V

IOLAU) = VOLAU) = 18 mA

ID (AV) = \$ IO(AV) = \$ X18mA = 9 mA

URM = J2 U2 =1.41 ×20V = 28.2V.

2. 变压被短锅,客易烧杯变压器烧图

10-10

1. 不够稳定。在并联型稳压电路中, R=0 时会发环 稳压管,一不能稳定

2. 当输入电压上升10%,负载电流为零时,流过稳压管电流最大

RP

V UIMAX = 1.28(1-142)= 19.8V

$$R > \frac{U_{\text{Imax}} - U_0}{I_{\text{Zmax}}} = \frac{(19.8 - 6)V}{38 \times 10^{-3} A} = 363. \Omega$$

当电社下降10%时

联系方式:-

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UImin =1.2×(0.9U2)=1.2×0.9×15=16.21/ R < (16.2-6) V IomaxtIz = (16.2-6) V (5+10) × 10-3A = 6805 1 3631 < R < 6801 R=5102

10-11

1.
$$U_2 = \frac{U_1}{1.2} = \frac{24V}{1.2} = 20V$$

2. 电位器调列最下端

$$U_{01}^{1} = \frac{R_{3} + R_{RP} + R_{4}}{R_{4}} \left(U_{BE} + U_{2} \right) = \frac{300 + 300 + 300}{300} \times (0.745.3) V = 18V$$

电位器调到最上端

$$U_{01}^{"} = \frac{R_{3} + R_{RP} + R_{4}}{R_{4} + R_{RP}} (U_{BE} + U_{Z}) = \frac{300 + 300 + 300}{300 + 300} \times (0.7 + 5.3) V = 9V$$

U.可调范围为9-18V.

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3.
$$\frac{4}{3}R_3 = 600 \, \text{J}$$

$$U_{02} = \frac{R_3 + R_R + R_4}{R_4} \left(U_{BE} + U_Z \right) = \frac{600 + 300 + 300}{300} \times (0.7 + 5.3) \, V = 24V$$

$$U_{0max} = U_{02} - 2 = 242V$$

10-17.

3.
$$U_0 = \frac{R_1 + R_2}{R_1} U + I_3 R_2 = \frac{R_1 + R_3}{R_1} + I_3 R_2$$

10-19
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$$U = B = 0.2V$$

 $(U_0)_{max} = (U + U = B) \times \frac{R_1 + R_{RP} + R_3}{R_1} = (15 + 0.2) \times \frac{1 + 2 + 0.5}{1} = 53.2$
 $(U_0)_{min} = (U + U = B) \cdot \frac{R_1 + R_{RP} + R_3}{R_1 + R_{RP}} = 17.7V$
 U_0 記 到 17.7~53-2V