Calculations hectifier ripple  $I = C \frac{dV}{4}$ ~ AV= IAt  $\Delta t = \frac{\Lambda}{9.50 \, \text{Hz}} = 10 \, \text{ms}$  $\overline{I_{\text{max}}} = \frac{P_{\text{max}}}{V_{\text{max}}} = \frac{160}{28.\sqrt{2}} = 4A \quad \forall \quad AV = \frac{\overline{I} \Delta t}{C} = 4.25V$ C= 2.4700 µF Toroid specs max, rms = Pmax Va.rms 2x 160 VA 28 Voc rectifier voltage O D Toto Regulator voltage trim Reg I RA Z RA R2 GRB Vout = VREF (1+ RB) + IAOJ · RB Vout, min = VREF, min (1+ RB, min) + TADj. RB, min Voutimac = VREF, Max (1+ RB, max) + TADI RB Max Comparator - current limit  $V_{+} = \frac{R_{20}}{R_{46} + R_{20}} V_{REG}$ (VREG-IRM). Rut Rug + Rug + Vaffset = VREF VREG - IR11 = (VREF-VOFFSET) R14+R19+R13
R19+R13 I = 1/RM (VREG - (VREF-VOS)) RNA + R I max = 1/Rm (VREG- (VREF-VOFF) · R14+R10+R13
R19+R13 Imin = 1 (VREG- (VREF+ VOFF). RB RC  $I_{LED} = \frac{V_{cc} - V_{LED} - V_{cE, sat}}{R_{c}}$ Disipation

Retisier diados = Irms, mac · Vo