

 $J_1 = \frac{V_{CC} - V_{BH}}{1,21} = \frac{24 - 3,2}{1,21} = 17,19 \text{ m/t}$ VCC = Jz2 (R1+22+23) + Vz $J_{22} = \frac{V_{CC} - V_{2}}{R_{Sovie}} = \frac{2 L_{5}}{3.8} = 7_{22} = 4.97 \text{ m/h}$ Pp Q5 ri Q6 cm RAN -> meglijam JB5 ri JB6=> => Vcc = Jc6(D4+R6)+VBE5+VBE6 JC6 = VCC - VBEB-VBEB = 24-0,7-0,7 =, JC6 = 4,93mA =5mA Decarea in amplificational de ericare Qz rè Qy mint identici => Jcz = Jc4 = Jc5 - Jc6 => Jc3 = Jc4 = 2,5 mA (Jo5=JC6 decarece 96 sé 95 formentà o nuevo d. de went) Pentou Q6-, JC5R8=VBE-> VBE=5.0,135=, VBE=0,675V V Pp Q3 x Q4 in RAN =>-5,1+0,7++ VCE5+JC5R8 =0 VCE5=5,1-0,7-0,675 VCE5=3,725V>VBE5-7 Q5RAN

Ucc=J1(R32+R38+R39+R40)+V64

VCC = JC6 (R4+R5) +VCE6 VCE = VCC-J66(R4P5) = 24-22,9=> VCE6=1,1V3VBE6=> Q6 RAN 200 = JCRG+ VEB+VCE 3 +VCE 5+ JC5 P8 VCE3 = 24-2,5-0,7-3,725-0,675=16,4V>VBE3=> Q3RAN Vc= JC4P7+VEC2+VCE4+VCE5+75R8 VCELZ VCC - JCHR7 -VECZ -VCE5- JCER8

VCE4=9,8V>0,7->QL in RAN

 $\frac{V_{out}}{V_{im}} = \frac{R_{11}}{R_{10}+R_{9}} = \frac{R_{11}}{R_{0}+R_{9}} = \frac{V_{im}R_{11}}{R_{0}+R_{10}+R_{11}} = \frac{5}{87} = 0,586 V$ $V_{out} = V_{BE8}$ $V_{im} = V_{BE}$ Vcc = Jc4 R7 + VEC2 + VcE8 => VCE8 = 14,2V le intrares "- a amplificationellei) le lens de alimentore de 24V, lennures este apolar cre cea de ref (5,1V) Vin = 10 => Vin = 5,1.25,9 = 13,2 => luminea de la Serves stabilitatorului este 13,2V Psin Framusa cu RN trace currentul $\frac{13,2}{25,9}$ = 0,5 mt $\frac{13}{25,9}$ = 0,5 mt $\frac{13}{2$ J= Vort-3,2 = 13,2-3,2 = 10 = 20,74 m A @ Pe transvia cu sarcina -> Vout = 13,2 = 20,44 m A = 27,44 m A In modul de la revoua proletie la repraction -> 3 aventi (0+0+0) => Jcg = 20,74+27,44+0,5 = 48,68 m A VBE7=48,68. 3.0,47=68,63 mV (accarta tensure ocasle odata cu o esterea curentului, la 0,5 A de lelocandu-se) 24=VCE9+Vout=>VCE9=24-13,2=10,8V -VCE8+VCE7+Vout=0=) VCE7=14,2-13,2=1V PSF realizat pentre linsurea de alimentara max se SET=1

Calcul putou PR3= PR39=PR40= 7, 330 = 17,19.330=97,51 mW PR38= 17,192.0,22=66mW PB4=3,1017,25=53,47mW PR1 = 0,1.5= 2,5mW R2=212.25=55mW Rz=1,5.25=37,5mW PD22=Uz. JD2=55=25mW L) 24-J(R1+R2+R2) =5 PR4 = JC6 R42 = 503,92 = 76mW 97,5 PR= JC6R3= 5.0,68= 17mW PQ6=VCE6.7C6=5,5mW PQ5=VCE5. Jc5=18,625 mW PR8=25.0,135=3,376 mW Pg, = 2,5 . 0,7 = 1,75 mW PQ2=2,5.7,3=18,25 mW Pa 3=2,5.16,4=41mW Pay=2,5-9,8=24,25 mW PR = 2,52. 1 = 6,25 mW PR7=2,5201=6,25mW PROF Foods mici decorece aventul à touce jour PRIOF els este o fracture du aventul de laza al leu PRII =

JBB =
$$\frac{50}{360}$$
 - 14 MA => PQB = 14 MA · 14, 2 = 198 MW

PRIS = 0, 22 · (0,5) = 1,5 mW

PRIS = 0,068 · (0,5) = 58 MW

PRIS = 10 · (0,5) = 2,4 mW

PRIS = 10 · (0,5) = 2,6 mW

PROS = 0,1 · 20,74 = 43,9 mW

PROS = 43,9 mW

PROS = 43,9 mW

PROS = 43,9 mW

PROS = 3,2 · 20,74 = 66,36 mW

PROS = 3,2 · 20,74 = 66,36 mW

PROS = 3,2 · 20,74 = 2 + 3,4 mW

PROS = 3,2 · 20,74 = 3 + 4 mW

PROS = 3,2 · 20,74 = 3 + 4 mW

PROS = 3,2 · 20,74 = 3 + 4 mW

PROS = 3,3 · 20,74 = 3 + 4 mW

PROS = 3,5 · 29 mW

PROS = 75,29 mW

PROS = 75,29 mW

PROS = 752 mW