3.9 4= cos - UT + EB = 90° (1.64) = 0.3183. (1.44) = 0.5 りょ=  $\frac{1}{2}\frac{Q_{1}(Q_{1})}{Q_{0}(Q_{1})}$  = 75.4%。  $\xi = \frac{Uc}{Vcc} \Rightarrow Uc = 28.8V$ 15号:  $Vcc - \frac{Vcc - Uc \cos \varphi}{1 + Gcc Uc} = Uc$   $\frac{9mUb}{}$ => 9mUb = 0.48A Icp = 9mUbl1- (OSP) = 0.48A Ic1 = Icpa, (4) = 0.24A Po = \frac{1}{2} Ic1Uc = 3.456W  $R_T = \frac{U_c}{T_{c1}} = 120\Omega$ Pc=Ppc-Po= Po - Po = 1.128W 3.11 情界状态 りょ= 201(4) 第= 60% ⇒ 5=0.875 ·: Vcc. Uc保持改:多後 改委后 了 = 200(年) 3 = 68% ⇒ \(\text{\text{\$\gamma'}} = 26.73\)° ·· Usemax 不多 故们工作于临界状态 Po = \frac{1}{2} Icy Q (49) UC ⇒ Po' = Q,(4) Po = 1.329 9まり、Ic1= Icpan(は)まり、 RT = Uc 多大

3.12(1) 欠压状态 (2) M点横坐标: VCL-UC=14 N点横坐标: Vu-Uccos9=22 K気横坐标: Vcc + Uc = 34 ⇒ Vcc = 14+34 ≥ Vcc = 2 = 24V, Uc = 10V Ψ = cos-1 Vcc-22 = 78.46° (3) 农应变大、当工作子临界状态、时术最大灯。 U'= 24-5=19V, 中天多  $0.49 = 0.472 - \frac{0.472 - 0.4549}{80 - 75} (80 - 78.46) = 0.4667$ Quly1 = 0.286 - 0.286 - 0.2693 (80-7846) = 0.2809 1 = 1 01(10) Uc = 65.8 % 3.13 由图 Vcc=12V, Uc=Vcc-0.8=11.2V N (0.8, 400), A(12, 400) JENAAMPE. : N(6.4.0) Vcc - Uccosq = 6.4  $\Rightarrow \varphi = 60^{\circ}$   $y_c = \frac{1}{2} \frac{Q_1(\varphi)}{Q_0(\varphi)} \frac{U_c}{V_{cc}} = 83.7\%$ Ic1 = Icp (X, Up) = 0.1564 A Po= = Ic1 Uc = 8-7584 W

