



det us assume forward active mode, 2-1BRB- 60.7-(B+1)IBRE=0 $\int_{B} \frac{1.3}{1+101\times1} mA$ = DB=12.75 MA / Ic= 1.27 mA 5-IcRe-VCE- TERE=0 7 VCE = 5 - 100×12.75×2 101×12.75×1 go our assumption is valid (ii) B=120 [B=1.3 m= 10.66 MA VCE=5- 100 x 10.66 x2 - 121 x 10.66 x] = 1.15174 > NCElsat) Da = 12.75-10.66 × 1000/0 = 16.4% decrear = 1.27869-12745 X100/ (nerea Vie = 1,6225-1.15174101. 1.2745 (0.33%) increase

