Homework 8 N= 2.5 × 1013 cm3 No = 5×1013 cm3 Na = 2.5 × 1013 Da = 100 cm/s Do = 50 cm/s Er-E; = Eg + 0,67 eV n= (No-Na)+ (No-Na)+ 4n= 2.795 × 10 3cm-3 4-0.0259 $M_0 = \frac{9}{1} = 3861$ $M_p = \frac{9}{7} = 1930.5$ $q = 1.602 \times 10^{19}$ 5= 9(nm+pmp) = 0.024 cms p= == 2.236×1013 cm3 4.5er 4.0er Schottky barrier because Dy X N=1.6 N=10 N=3×109 E=12 E2=13 Vo = Vo1 + Vo2 Vo1 = (1+ E,M) = 0578 mV Voz = V - V - 1159942 V AlGaAs GaAs $3\Delta E_g$ $3\Delta E_g$ $3\Delta E_g$ $3\Delta E_g$ $3\Delta E_g$ 5AlGaAs 1^{t} 1^{t} 1b) pt AlGaAs AFC= 0.387eV_171 - Eg= 42eV Ev = 0.193eV Eg= 2.0 eV C) nt-AlGaAs



