= # 0 · 386

	MAEER'S MIT
5>	EF = 5 5eV, T=300K, F(6)=0.9
	K=1.38×10 23 J/R = 86.25×10 6 eV
	KI = 86.25 X10 6 X300 = 0.02 G
	$F(E) = \frac{1}{1 + e^{(E - EF)/kT}}$
	: 0.9 = 1 1+ (E-55)/0.026
	e = 0.9
	· · E 2 9A
	E = -7.197 x 0.026 +5.5
	E = 5.443 eV
• 6>	RH= 145 cc/c,
	ω=2cm, +=0.2cm
	B= 2T , I = 150mA
	FH = VH
	: VH = RHJBA
	· Vu = 145 ×10-6 × 3750× 2× 0.2 ×10-2
	: UH = 21.75 x10-4 V
	WHE STORE MY VH = 2:175 MV

	MAEER'S MIT
9>	-(E-EF)=0.02
	=0.02 ×1.6 ×10 19 7
	= 3.2 × 15 <sup>21</sup> 5
	AS $F(E) = 1$ $1 + e^{(E - EF) KT}$
	1+e(E-EF) KT
	T=300K,
	P(E) = 1 1+ e(-3.2×10-21)/(1.38×10.23×300)
	1+ 6-3.5×10-11/(1.38×10,53×300)
	1+e-0.7729
	= 6.6841
	T=1000k,
	F(C) = (-3.2×10-21)/1.38×10-23×1000).
	1+e
	1+e-0.2318
	= 0.5576 \$ 0.56.
10)	thickness = 0-3mm PD = 2V
	$A = 1 \text{ cm}^2$
	cre is an entrineic semiconductor.
	= 2x10 9 x1.6x10-19 (0.36+0.17)
	= 1.696 mho/m.