1. Subthreshold. (Ullent 好意 前541 型19.

Ids of exp(Vgs) 이巴 の見る の見り かきまた
log Ids of Vgs 電色 対象である。

Vos 가 증가성 수록 Surface 이 전기의 양이기수정 으로 증가성이 전다 Ids 도 지워크 증가였다.

From $(av_{ss} - \Delta P_s) - (ae_{p}(\Delta P_s) = 0 \text{ old.}$ $(av_{e}(1 - \frac{\Delta P_s}{\Delta V_{gs}}) - (ae_{p}(\frac{\Delta P_s}{\Delta V_{gs}}) = 0 \text{ old.}$

 $\frac{A\varphi_s}{\Delta V_{0S}} = \frac{C_0 \chi e}{C_0 \chi e + C_{dep}} = \frac{d\varphi_s}{dV_{0S}} \sim 261 \quad 0\frac{1}{2}$ $\frac{1}{12} = \frac{1}{12} + \frac{1}{12} = \frac{1}{12} + \frac{1}{12} = \frac{1}{12}$

 $\frac{dP_s}{dV_{0S}} = \frac{C_{0xe}}{C_{0xe} + C_{dep}} \stackrel{?}{=} 059 \frac{352}{52}$ $P_S = C_1 + \frac{V_{0S}}{h} \quad 0174$

Ids = N_s of 0 |z| |

Ids = 100 nA · W 2741 = 12 261 3/271

TENZO VOS CHE VE Z CHOLE Ids 7L

100 nA - W 0/07 E/TL

0 KT (C1+12) = e 40 + 4 Vos 6 123

Ids = Czenkt oles loonA. W = Czenkt

[C/2/4] (2 = 100. W. e - 4/4 [n/ [n/] o/cl.

Ids = 100. W. & 4 (Vos-Ve) = 4 = 4 = 4 = 100.

2. Subthreshold current 를 날리기위에, 또는 Subthreshold Swing S을 날리기위에 포함한 비장성한 MosfeT 성제 3년는 무것하다.

题, Short-Channel 在时间的 DIBL 直径 2014年 DIBL 直径 2014年 1014年 1018年 101

N=1+ Capp on4 Not 12 and 7/25 are 3/3/06
1= = = 1 - (oxe on4) Coxe = 7/3/06

(oxe = 20xe)
(oxe = \frac{\xe}{\tau\ce})

(dep를 줄이기 위비신 Warp를 늘리면 되므로 12 Type substitute doping density를 날音다)

THE Short Channel Establish Warp & THE

HI OLZE STORT CHANNEL ESTA Scailing 1

Warp & LAN ENGLOW STORT COURSELL.

3. MOSPET 718 IC 914 25 20 18287, aff-curent = 12914 + 1212 the 4221 91321 3m 2524 246.

Subthreshold Swing 5 E 기台기의 영午後이므로 子아니 폴仁.

 $S = \frac{dVos}{d\log Ids} = \ln 10 \frac{dVos}{d\ln Ids} = 2.3 \cdot \frac{kT}{q} \cdot n$

= 2.3.25 mV·N = 60 mV·N. \ \frac{7}{300k}

Th = 714 5714 571 = 71215 105 Ias / V95 718

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201 4501 LIGHRICL

4. Short - Channel Mosfet and hot-election of the interface trap state That the off off the policy of the short of the policy of the short of the policy of