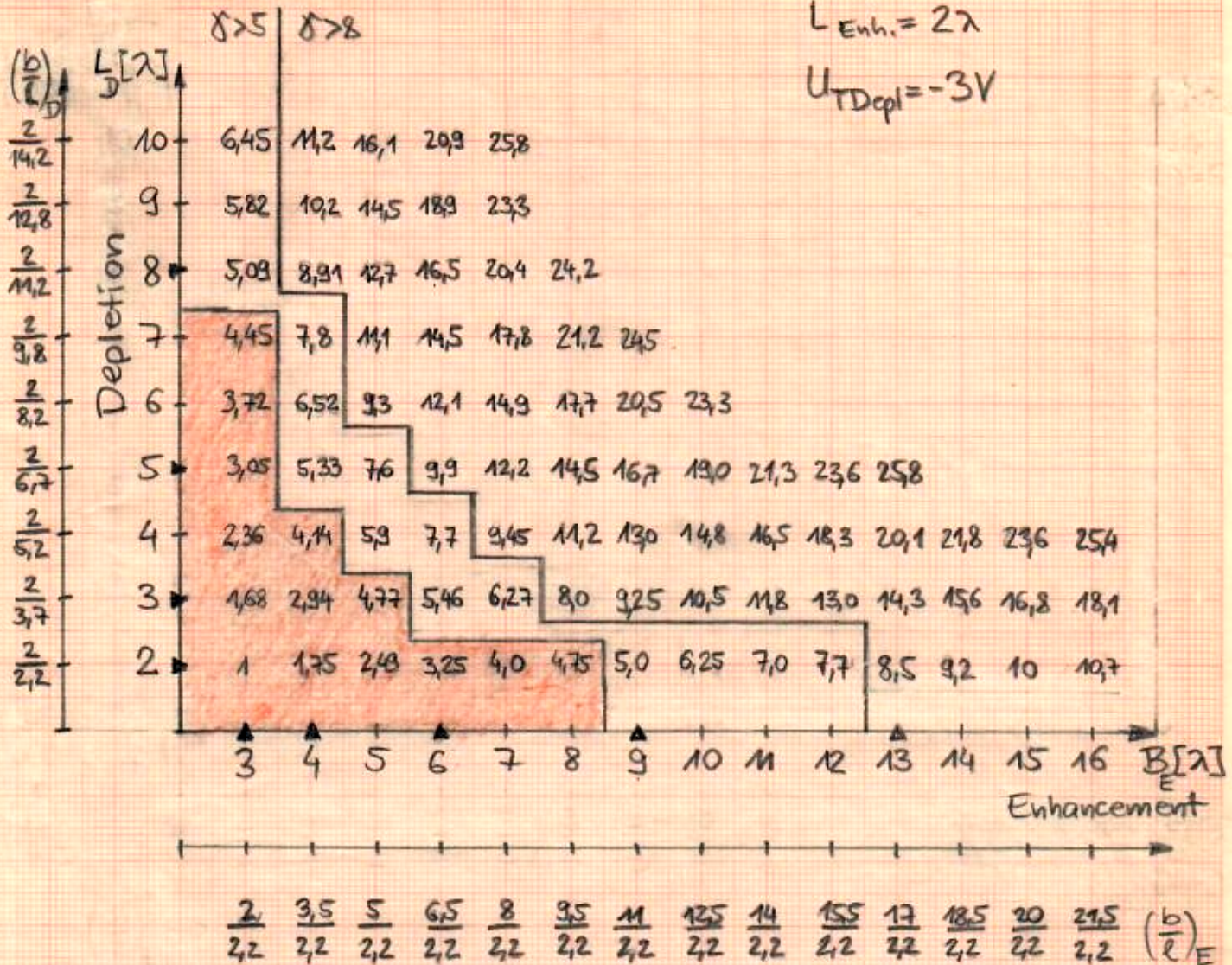


Stat. Dimensionierungstab.
für nSGT3-Trs.

$$B_{\text{Depl.}} = 3\lambda$$

$$L_{\text{Enh.}} = 2\lambda$$

$$U_{\text{TDpl}} = -3V$$



Vorzugspaarungen:

$\gamma = 5$	B_E	L_D	$I [\mu A]$
	3	8	20
	4	5	33
	6	3	60
	(9)	2	102)

$\gamma = 8$	B_E	L_D	$I [\mu A]$
	4	8	20
	6	5	33
	9	3	60
	(13)	2	102)

$\gamma = 10$	B_E	L_D	$I [\mu A]$
	4	9	18
	6	6	28
	9	4	45
	13	3	60
	(16)	2	102)

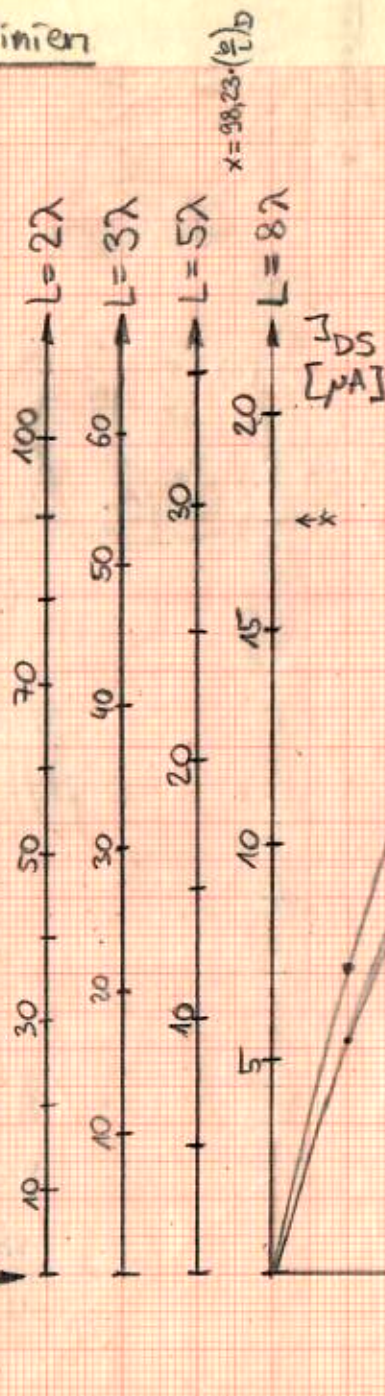
$$I_{\text{max}} [\mu A] = \frac{214}{(L_D \cdot \lambda - 1.3)}$$

Angaben in Klammern:
Toleranzeempfindlichkeit beachten.

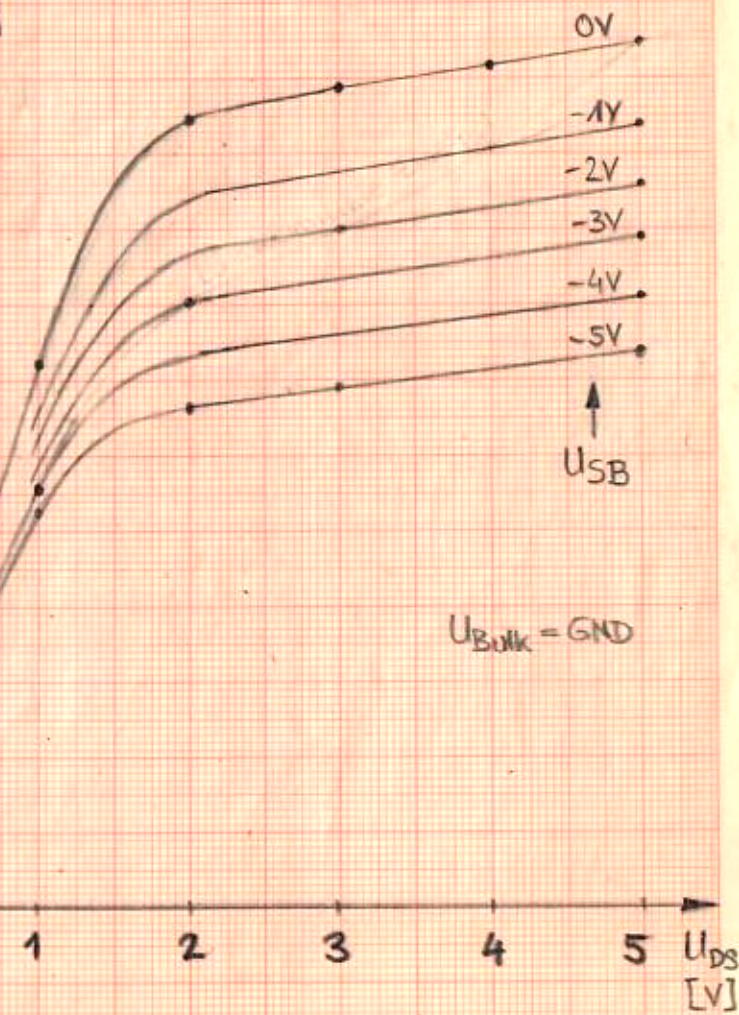
λ -bezogene Strom-Spann-Kennlinien für nSGT3-Trs.



Enhancement ($L=2\lambda$)



Depletion ($B=3\lambda$)



Optimaler Schaltpunkt: $(\frac{1}{e})$

$R_{DS(on)} \approx 4,5 \dots 8$

MIN MAX
 $U_{INVTHR.}$
MIN: $U_{GS} > 2U_T$
MAX: $U_{GS} < 1/2 U_T$

Transferkennlinie nSGT 3

$$\mu_a = \mu_i$$

