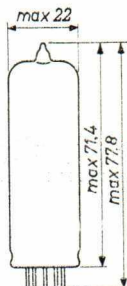
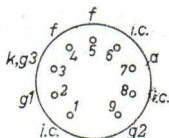
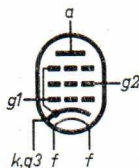


OUTPUT PENTODE PENTHODE DE SORTIE ENDPENTODE

Heating : indirect by A.C. or D.C.
series supply
Chauffage: indirect par C.A. ou C.C.
alimentation série
Heizung : indirekt durch Wechsel-
oder Gleichstrom; Serien-
speisung

$V_f = 45 \text{ V}$
 $I_f = 100 \text{ mA}$

Dimensions in mm
Dimensions en mm
Abmessungen in mm



Base, culot, Sockel: NOVAL

Capacitances
Capacités
Kapazitäten

$C_a = 6,0 \text{ pF}$
 $C_{g1} = 12,0 \text{ pF}$
 $C_{ag1} < 0,6 \text{ pF}$
 $C_{g1f} < 0,25 \text{ pF}$

Typical characteristics
Caractéristiques types
Kenndaten

V_a	=	100	170 V
V_{g2}	=	100	170 V
V_{g1}	=	-6,7	-12,5 V
I_a	=	43	70 mA
I_{g2}	=	3	5 mA
S	=	9	10 mA/V
μ	=	8	8
R_1	=	23	23 k Ω

Operating characteristics class A
Caractéristiques d'utilisation classe A
Betriebsdaten Klasse A

V_a	=	100		170		V		
V_{g2}	=	100		170		V		
V_{g1}	=	-6,7		-12,5		V		
$R_{a\sim}$	=	2,4		2,4		k Ω		
V_1	=	0	0,55	4,3	0	0,5	7,0	V_{eff}
I_a	=	43	-	43	70	-	70	mA
I_{g2}	=	3	-	11	5	-	22	mA
W_o	=	-	0,05	1,9	-	0,05	5,6	W
d_t	=	-	-	10	-	-	10	%

Operating characteristics class B, two tubes
Caractéristiques d'utilisation classe B, deux tubes
Betriebsdaten Klasse B, zwei Röhren

V_a	=	100		170		V		
V_{g2}	=	100		170		V		
V_{g1}	=	-11,4		-20,5		V		
$R_{aa'} \sim$	=	3,5		3,5		k Ω		
V_1	=	<u>0 0,95 7,9</u>		<u>0 0,92 14,6</u>		V_{eff}		
I_a	=	2x10	-	2x30,5	2x15	-	2x57,5	mA
I_{g2}	=	2x0,55	-	2x7,1	2x0,7	-	2x20,5	mA
W_o	=	-	0,05	3,7	-	0,05	13,5	W
d_t	=	-	-	2,8	-	-	4,8	%

Operating characteristics class AB, two tubes
Caractéristiques d'utilisation classe AB, deux tubes
Betriebsdaten Klasse AB, zwei Röhren

V_a	=	100		170		V		
V_{g2}	=	100		170		V		
R_k	=	135		120		Ω		
$R_{aa} \sim$	=	3,5		3,5		k Ω		
V_1	=	0	0,54	7,0	0	0,45	13,1	V_{eff}
I_a	=	2x29	-	2x31	2x56,5	-	2x57,5	mA
I_{g2}	=	2x1,6	-	2x7	2x3,0	-	2x20,5	mA
W_o	=	-	0,05	3,6	-	0,05	13,0	W
d_t	=	-	-	3	-	-	4,5	%

Operating characteristics in triode connection, class A
(Screen grid connected to anode)
Caractéristiques d'utilisation en montage triode, classe A
(Grille-écran reliée à l'anode)
Betriebsdaten in Triodenschaltung, Klasse A
(Schirmgitter verbunden mit Anode)

$V_a =$	100		170	V
$V_{g1} =$	-8		-15,1	V
$R_{a\sim} =$	1,2		1,2	k Ω
$V_i =$	0 1,8 5,7		0 1,75 10,8	V_{eff}
$I_a =$	30 - 36,1		50 - 62	mA
$W_o =$	- 0,05 0,52		- 0,05 2,1	W
$d_t =$	- - 10		- - 10	%

Operating characteristics two tubes class AB in triode
connection (Screen grid connected to anode)
Caractéristiques d'utilisation deux tubes en classe AB
en montage triode (Grille-écran reliée à l'anode)
Betriebsdaten zwei Röhren in Klasse AB in Triodenschal-
tung (Schirmgitter verbunden mit Anode)

$V_a =$	100		170	V
$R_k =$	270		270	Ω
$R_{aa\sim} =$	3,5		3,5	k Ω
$V_i =$	0 1,54 7,3		0 1,45 13,4	V_{eff}
$I_a =$	2x18 - 2x20		2x32,5 - 2x36	mA
$W_o =$	- 0,05 1,0		- 0,05 3,9	W
$d_t =$	- - 3,2		- - 3,8	%

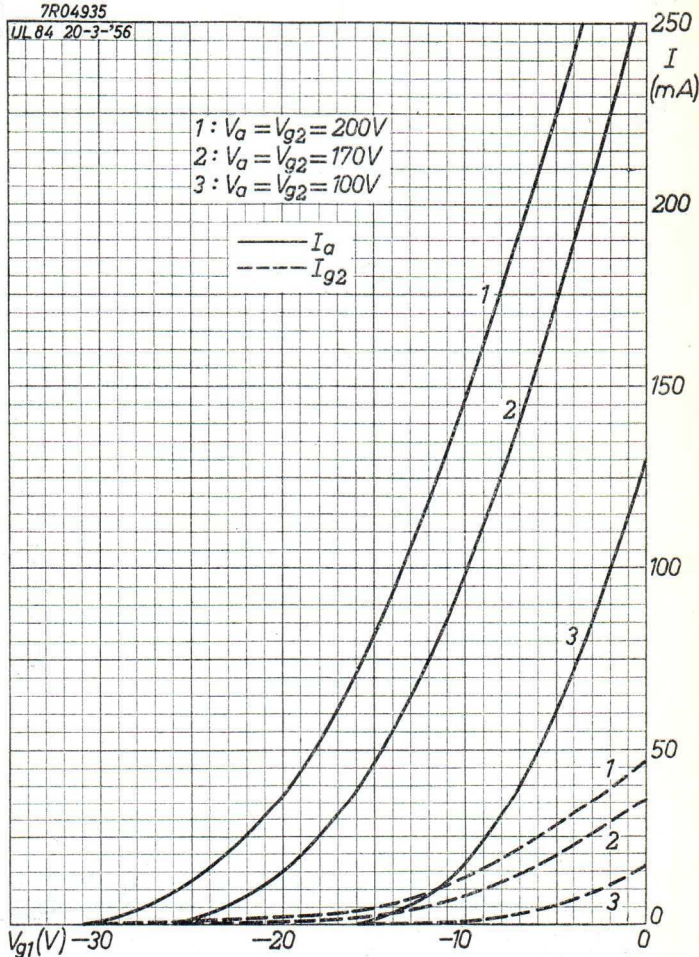
Limiting values
Caractéristiques limites
Grenzdaten

V_{a0}	= max.	550 V
V_a	= max.	250 V
W_a	= max.	12 W
V_{g20}	= max.	550 V
V_{g2}	= max.	200 V
W_{g2}	= max.	1,75 W
W_{g2p}	= max.	6 W
I_k	= max.	100 mA
R_{g1}	= max.	1 M Ω ¹⁾
V_{kf}	= max.	200 V
R_{kf}	= max.	20 k Ω

¹⁾ With automatic grid bias
Avec polarisation automatique
Mit automatischer Gittervorspannung

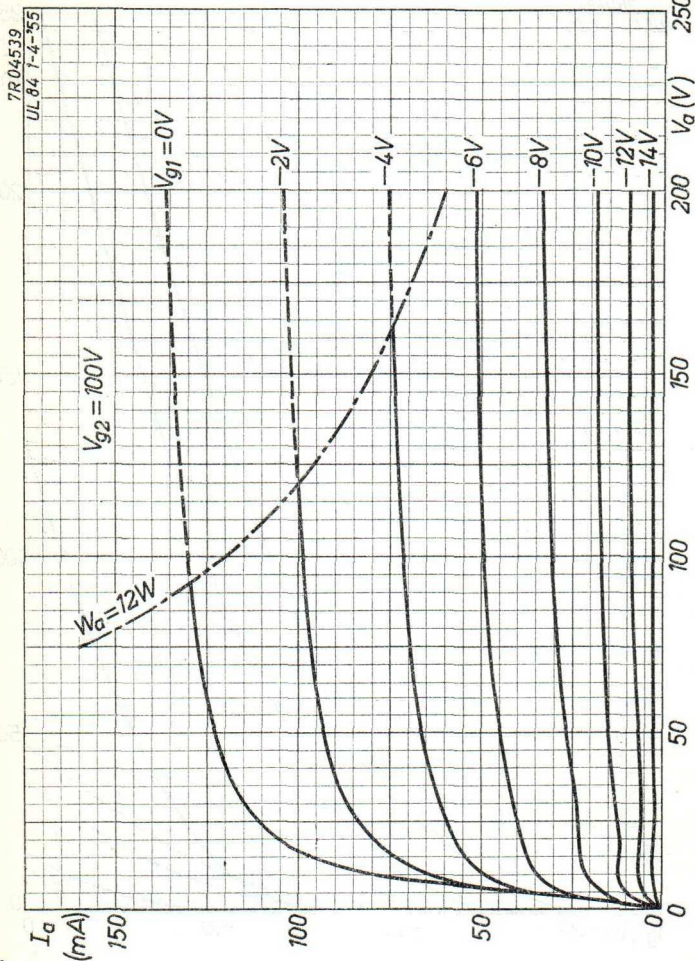
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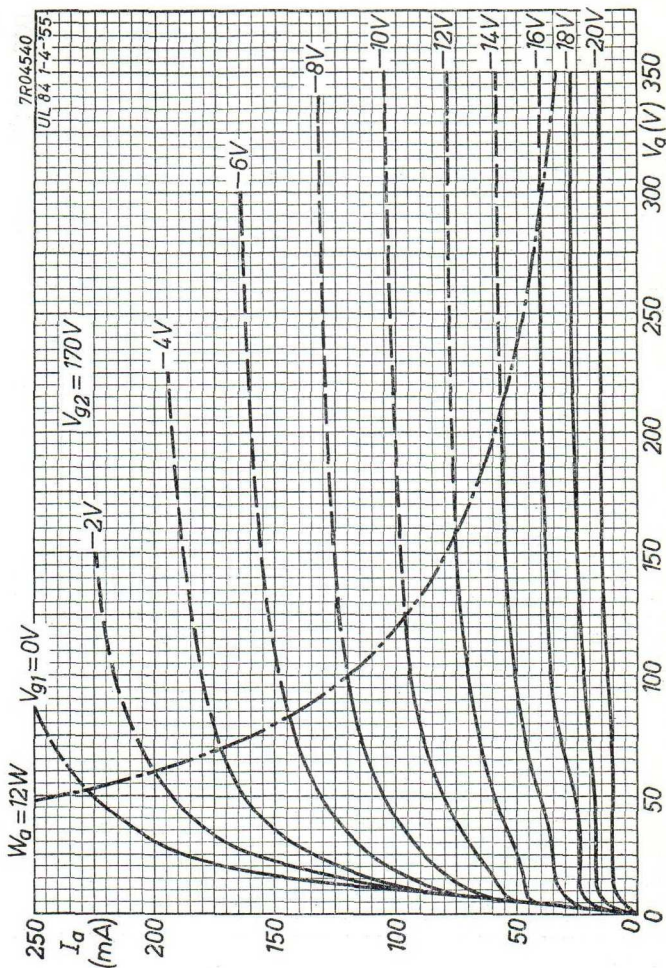
A

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B

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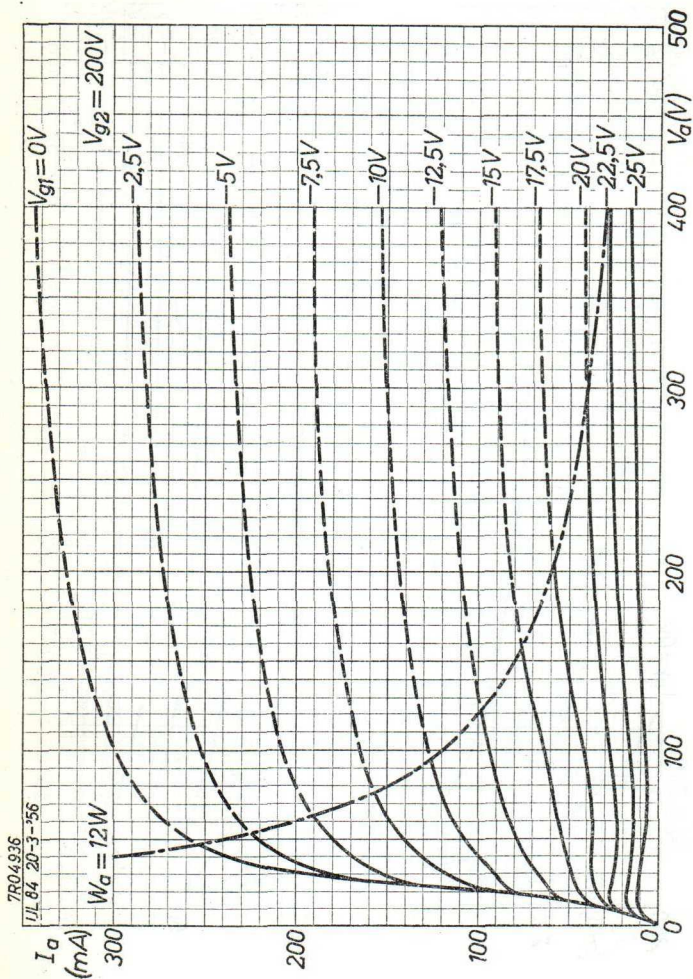


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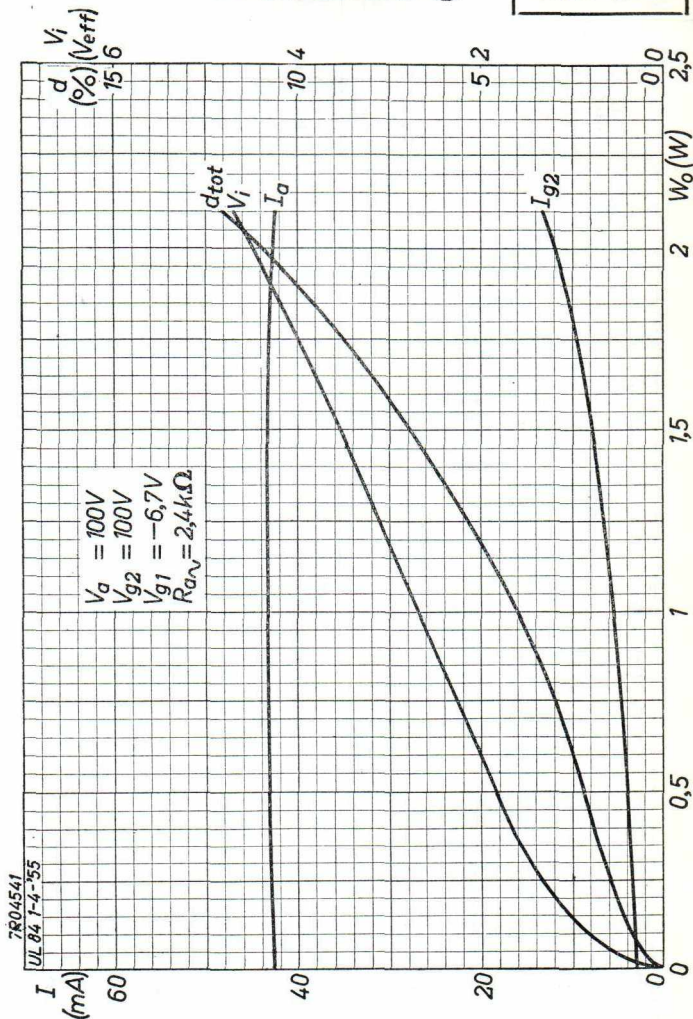
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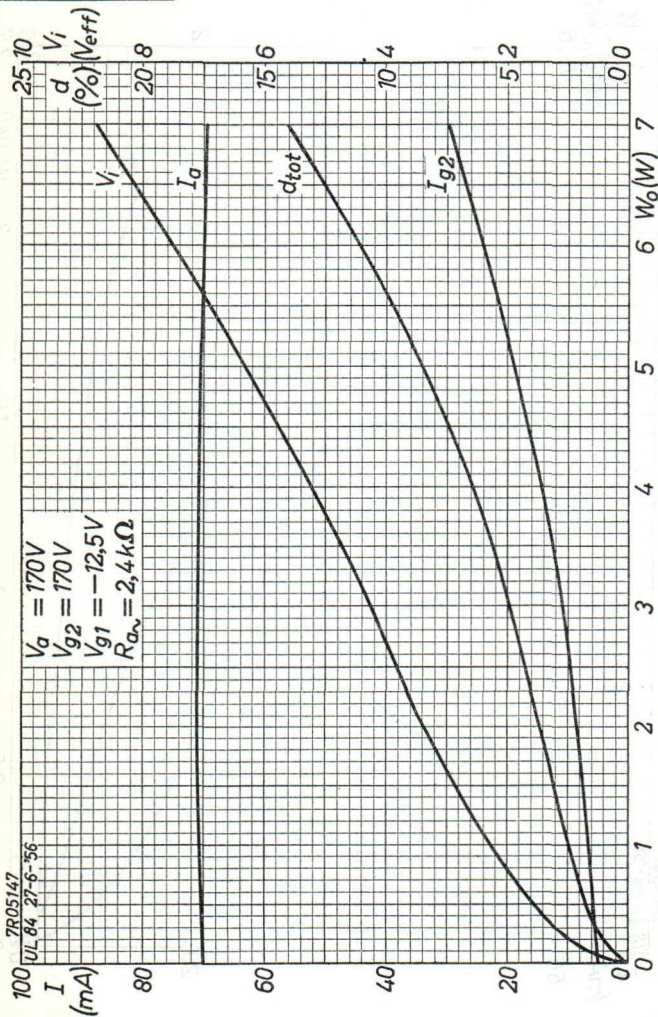


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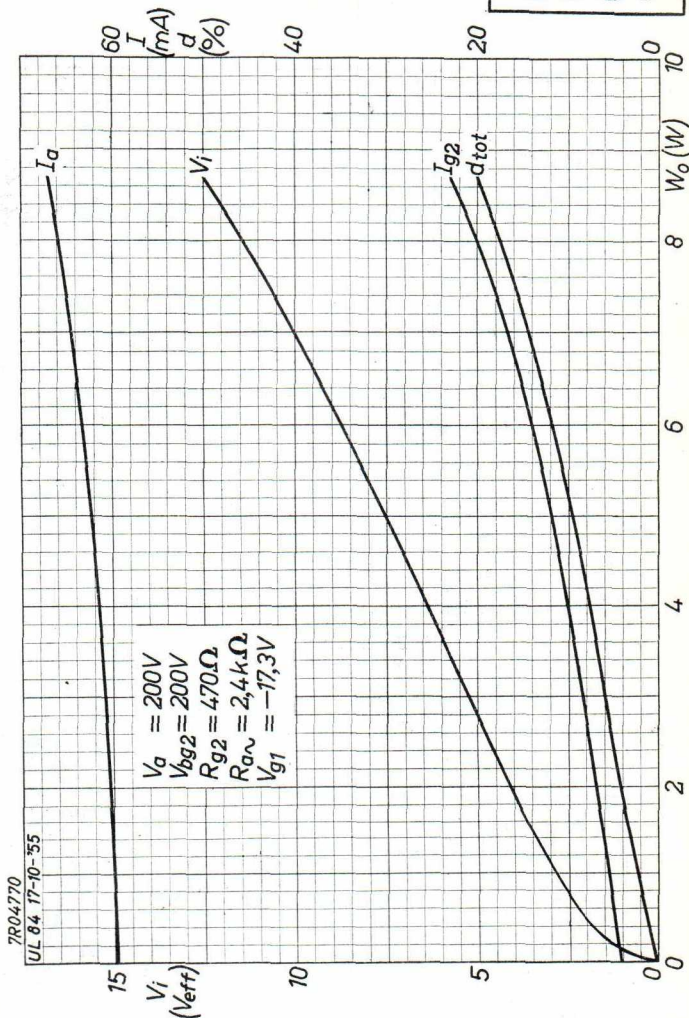
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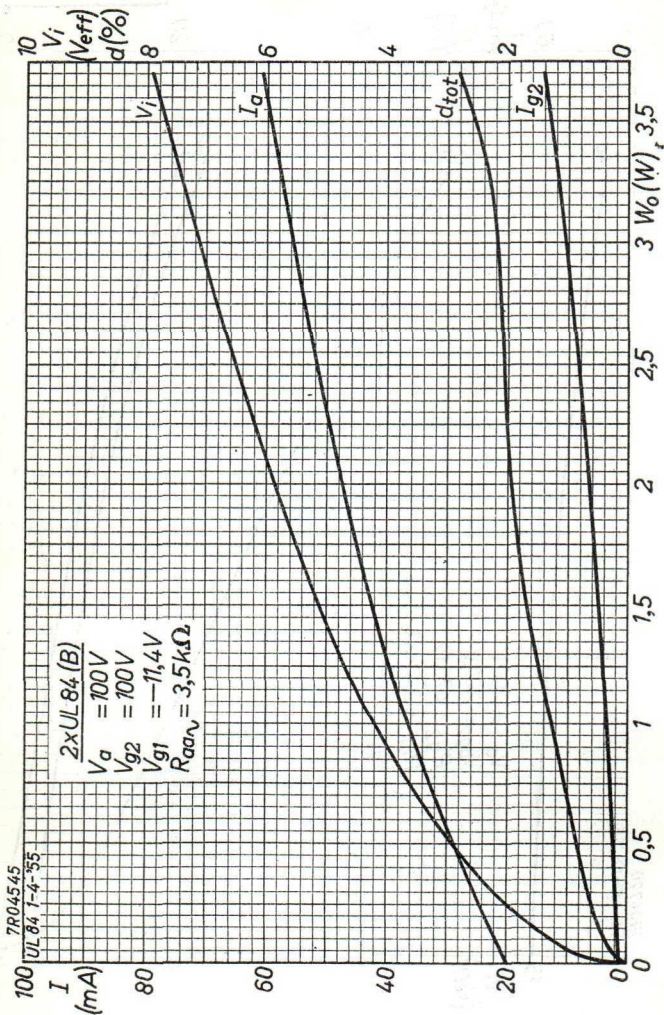
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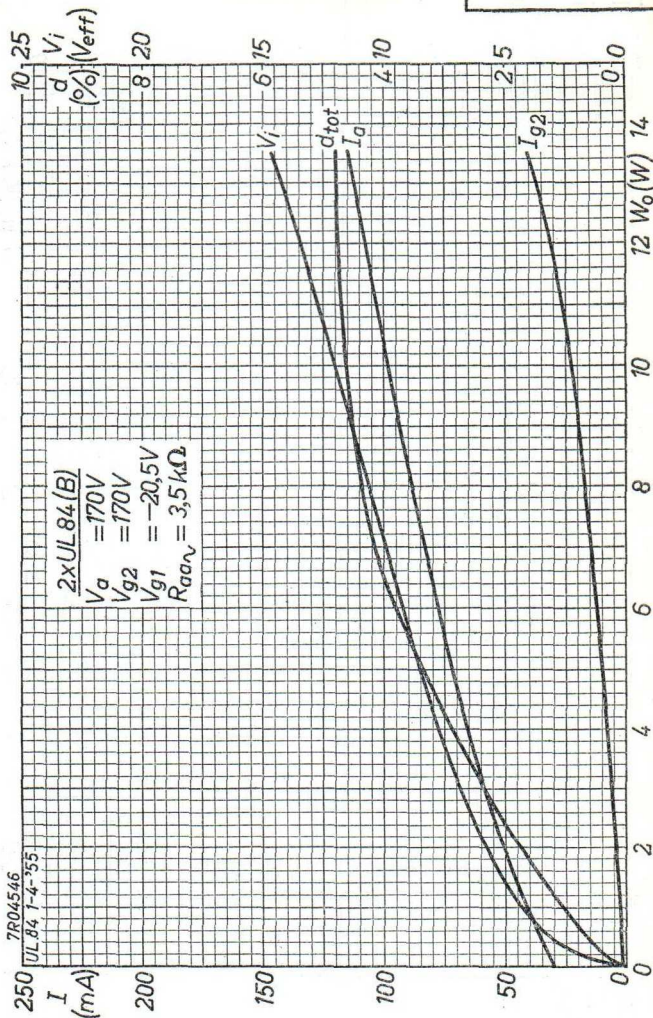
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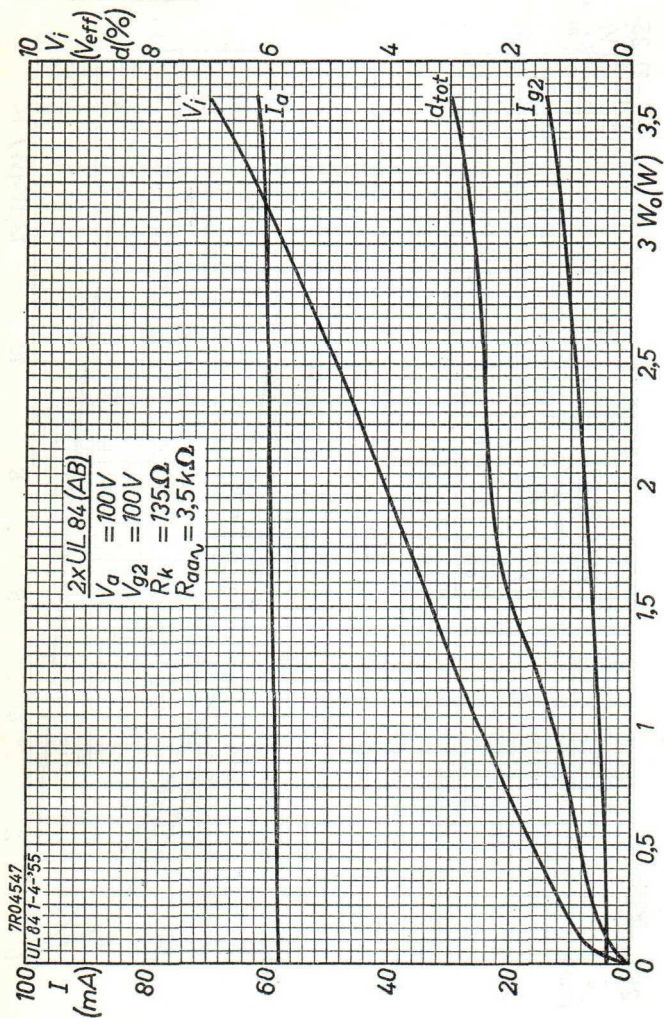
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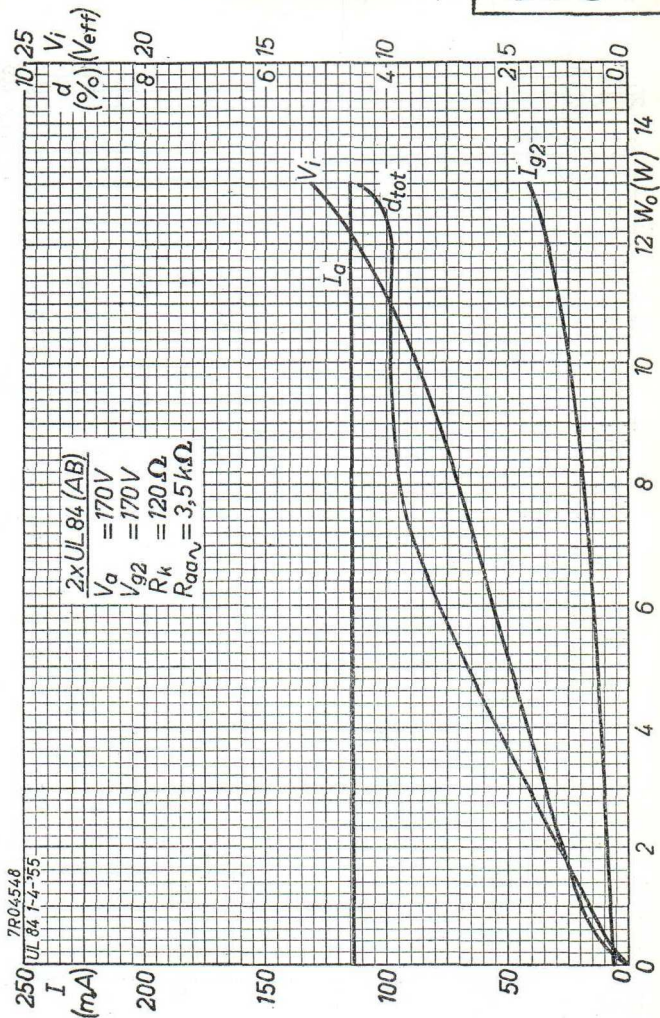
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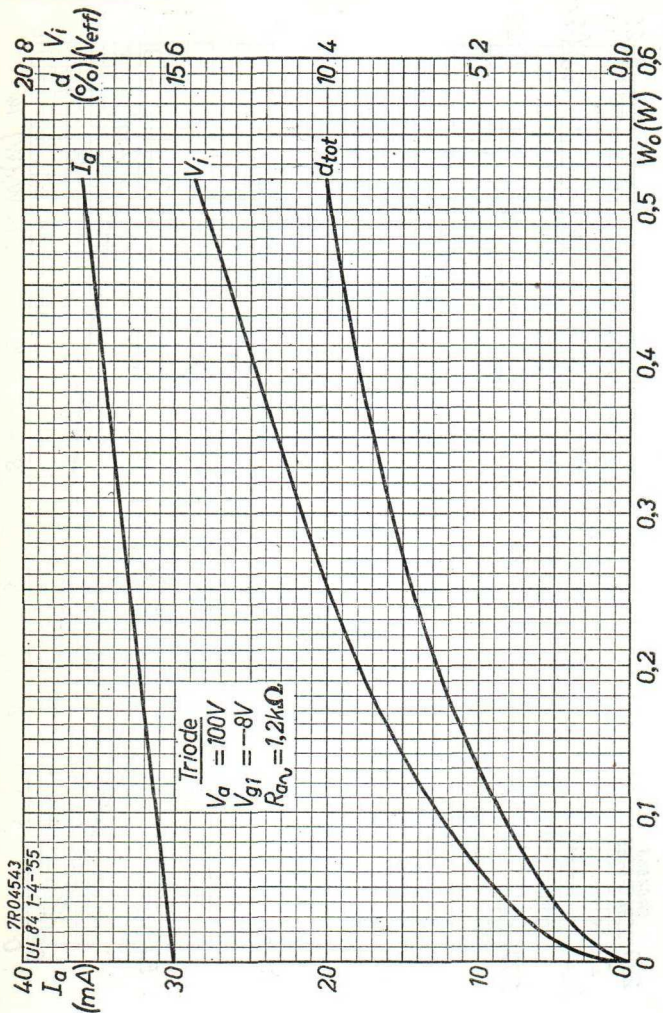
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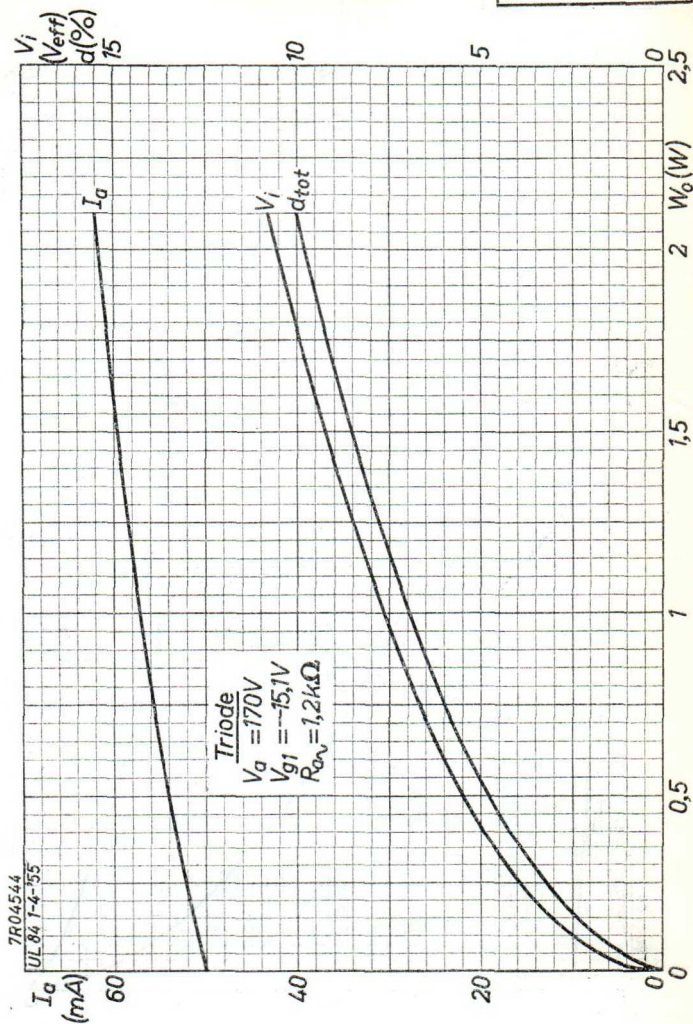
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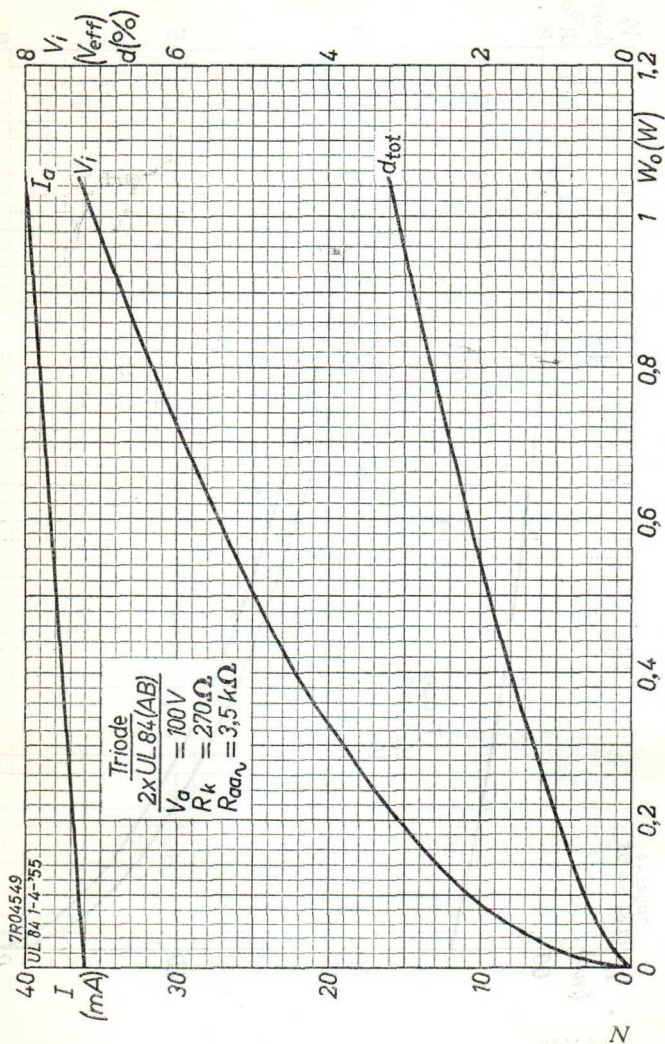


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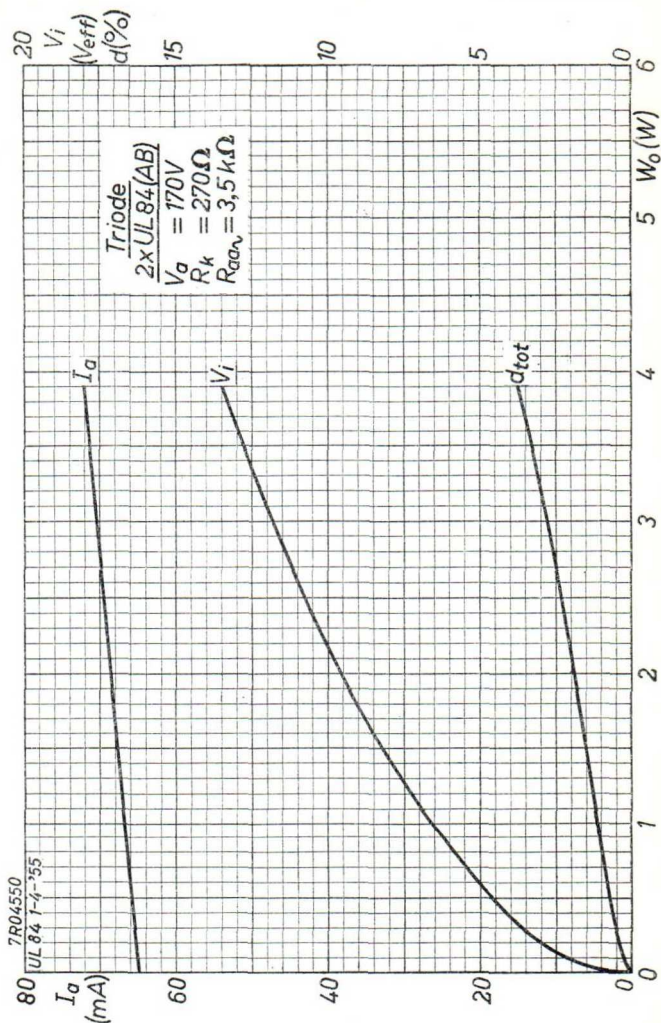
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