

OUTPUT PENTODE for battery receivers
PENTHODE DE SORTIE pour des appareils batterie
ENDPENTODE für Batteriegeräte

Heating: direct by battery current, rectified A.C.
or D.C.; series or parallel supply
Chauffage: direct par courant batterie, C.A. redressé
ou C.C.; alimentation en série ou en parallèle
Heizung: direkt durch Batteriestrom, gleichgerichteten Wechselstrom oder Gleichstrom;
Serien- oder Parallelspeisung

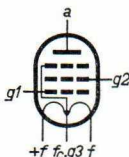
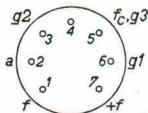
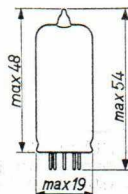
Parallel supply; alimentation en parallèle;
Parallelspeisung

$V_f =$	1,4 V ¹⁾	1,4 V ²⁾	2,8 V ³⁾
$I_f =$	50 mA	100 mA	50 mA
Pins			
Broches neg.	5	5	1
Stifte pos.	7	1+7	7

Series supply; alimentation en série; Serienspeisung

$V_f =$	1,3 V ¹⁾	1,3 V ²⁾	2,6 V ³⁾
Pins			
Broches neg.	5	5	1
Stifte pos.	7	1+7	7

Dimensions in mm
Dimensions en mm
Abmessungen in mm



Base, culot, Sockel: Miniature

Capacitances
Capacités
Kapazitäten

$C_{g1} = 5,0 \text{ pF}$
 $C_a = 3,8 \text{ pF}$
 $C_{ag1} < 0,40 \text{ pF}$

^{1), 2), 3)} see page 2; voir page 2; siehe Seite 2

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

$V_f = 1,4 \text{ V}^2$; $I_f = 100 \text{ mA}$; pins, broches, Stifte 5-(1+7)

V_a	=	90	86	120	113 V
V_{g2}	=	90	86	120	113 V
V_{g1}	=	-5,1	-4,5	-8,1	-7,1 V
I_a	=	8,0	8,0	10	10 mA
I_{g2}	=	1,8	1,8	2,3	2,3 mA
S	=	2,0	2,0	2,0	2,0 mA/V
μ_{g2g1}	=	7,3	7,3	7,3	7,3
R_1	=	110	110	110	110 k Ω
R_a	=	8	8	8	8 k Ω
W_o ($d = 10 \%$)	=	310	280	550	500 mW
V_1 ($d = 10 \%$)	=	4,1	4,0	5,0	4,9 V_{eff}
W_o ($I_{g1} = +0,3 \mu A$)	=	340	290	680	570 mW
V_1 ($I_{g1} = +0,3 \mu A$)	=	4,5	4,1	6,6	5,9 V_{eff}
d ($I_{g1} = +0,3 \mu A$)	=	12	11	15	14 %
V_1 ($W_o = 50 \text{ mW}$)	=	1,35	1,35	1,3	1,3 V_{eff}

1) One filament section
 Une partie du filament
 Ein Glühfadenteil

2) Two filament sections in parallel
 Deux parties du filament reliées en parallèle
 Zwei Glühfadenteile parallelgeschaltet

3) Two filament sections in series
 Deux parties du filament reliées en série
 Zwei Glühfadenteile in Serie

4) With cold tube; avec tube froid; bei kalter Röhre

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

$V_f = 2,8 \text{ V}^3$; $I_f = 50 \text{ mA}$; pins, broches, Stifte 1-7				
V_a	=	90	86	120 113 V
V_{g2}	=	90	86	120 113 V
V_{g1}	=	-4,2	-4,3	-8,1 -7,2 V
I_a	=	8,0	7,0	9,0 9,0 mA
I_{g2}	=	1,7	1,5	1,8 1,8 mA
S	=	2,0	1,9	2,0 2,0 mA/V
μ_{g2g1}	=	7,3	7,3	7,3 7,3
R_i	=	120	120	120 120 k Ω
R_a	=	10	10	10 10 k Ω
W_o ($d = 10 \%$)	=	280	250	500 420 mW
V_i ($d = 10 \%$)	=	3,8	3,7	4,8 4,4 V_{eff}
W_o ($I_{g1} = +0,3 \mu A$)	=	290	270	620 525 mW
V_i ($I_{g1} = +0,3 \mu A$)	=	4,0	4,0	6,6 6,1 V_{eff}
d ($I_{g1} = +0,3 \mu A$)	=	12	11,5	17 16 %
V_i ($W_o = 50 \text{ mW}$)	=	1,35	1,40	1,35 1,35 V_{eff}

Limiting values
Caractéristiques limites
Grenzdaten

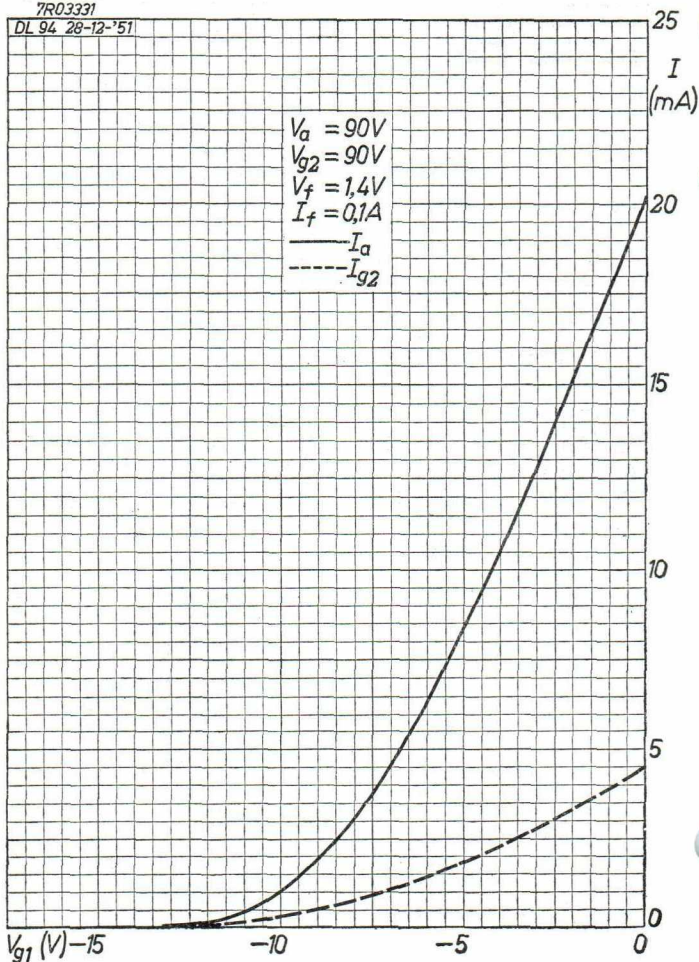
V_a	= max.	150 V
V_a ($V_i = 0 \text{ V}$)	= max.	180 V
V_a	= max.	200 V ⁴⁾
W_a	= max.	1,2 W
V_{g2}	= max.	150 V
V_{g2} ($V_i = 0 \text{ V}$)	= max.	180 V
V_{g2}	= max.	200 V ⁴⁾
W_{g2}	= max.	0,45 W
I_k	= max.	6 mA ¹⁾
I_k	= max.	12 mA ²⁾
I_k	= max.	11 mA ³⁾
R_{g1}	= max.	1 M Ω
V_{g1} ($I_{g1} = +0,3 \mu A$)	= max.	0 V

¹⁾²⁾³⁾⁴⁾ See page 2; voir page 2; Siehe Seite 2

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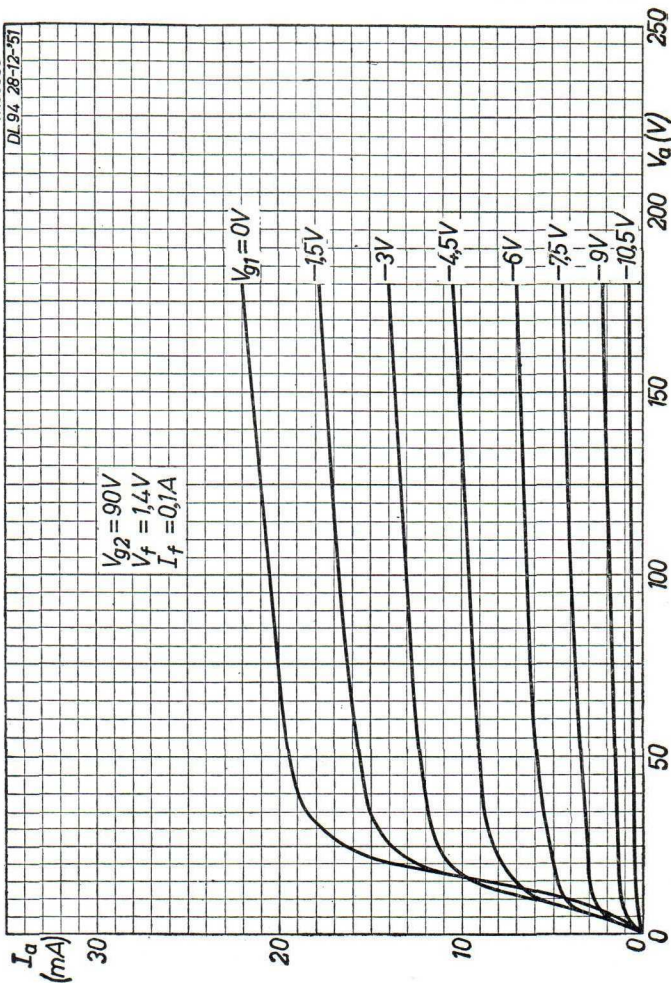
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**A**

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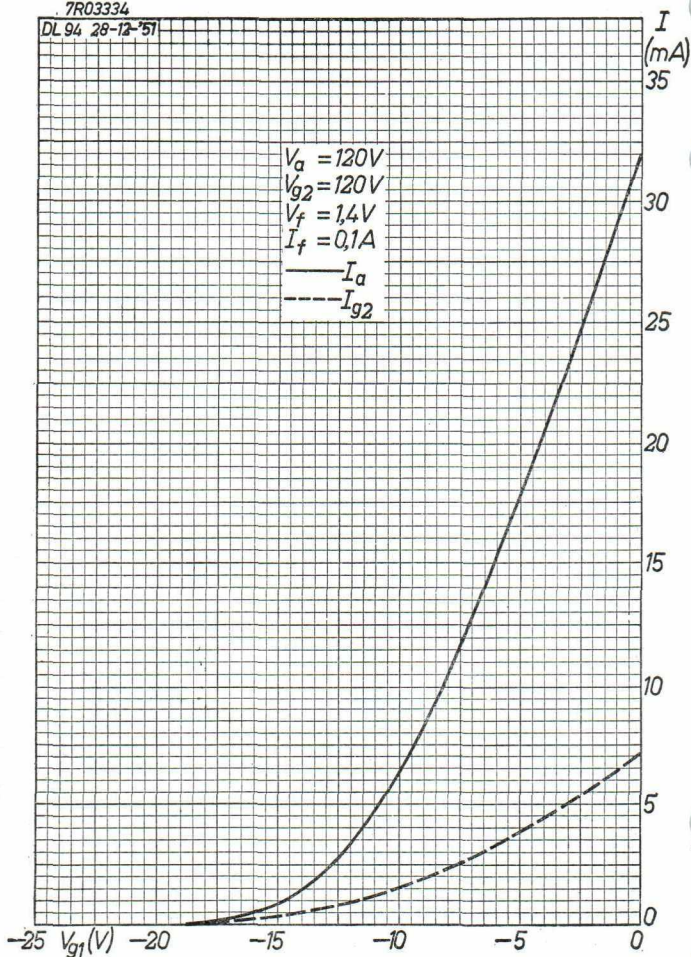
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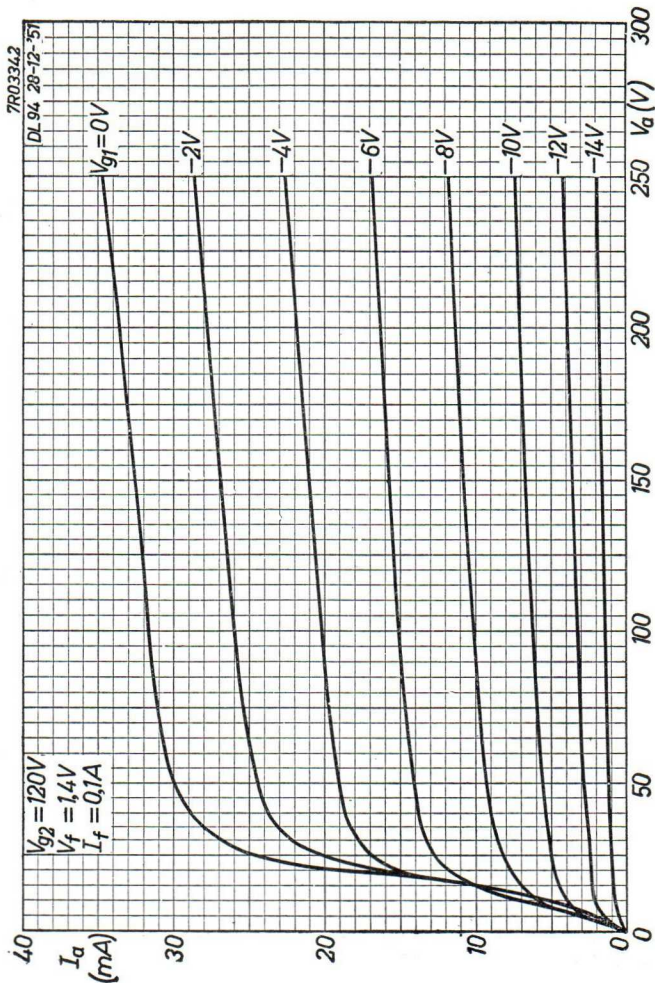
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c



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$V_a = 150V$

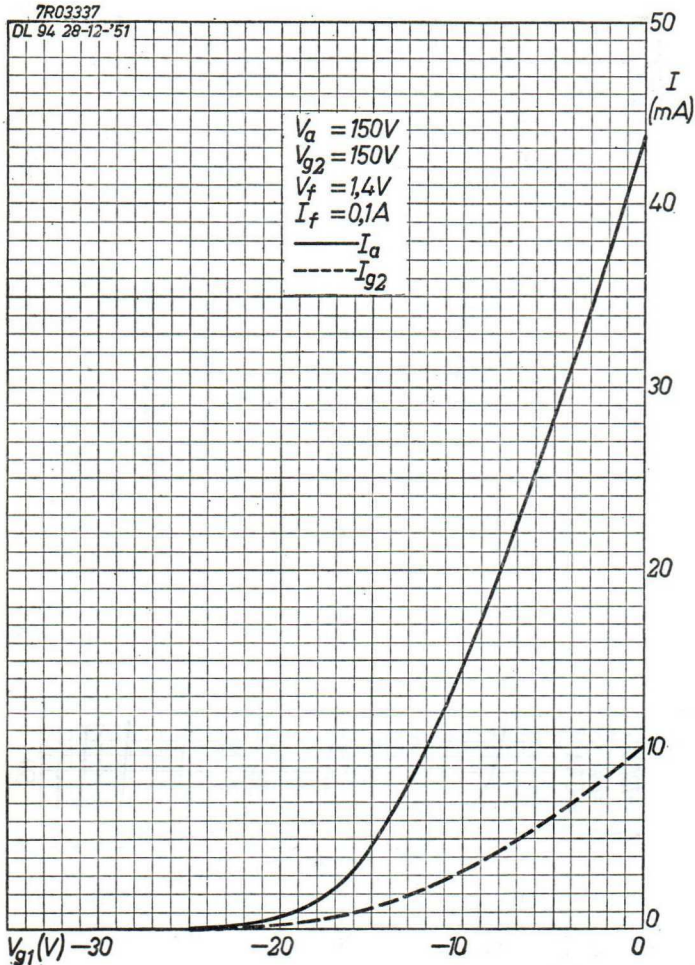
$V_{g2} = 150V$

$V_f = 1,4V$

$I_f = 0,1A$

— I_a

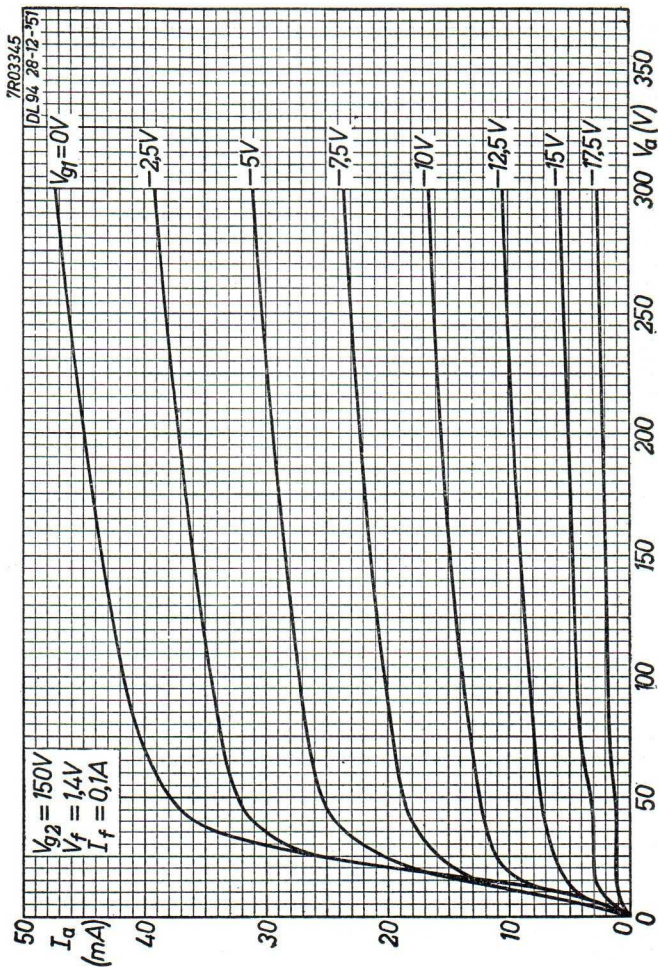
- - - I_{g2}



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$$V_a = 90V$$

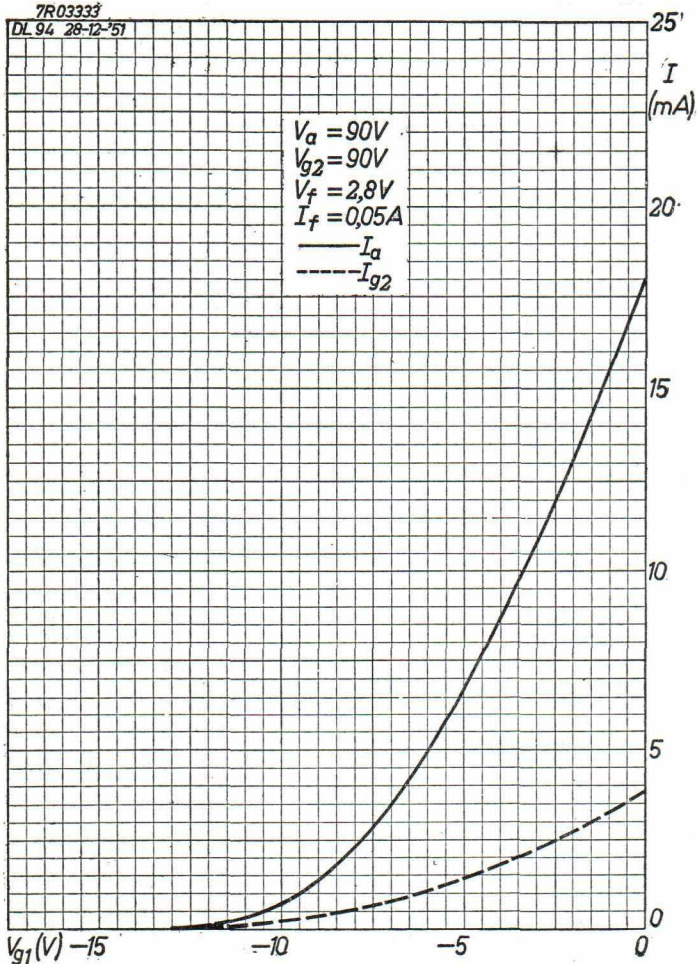
$$V_{g2} = 90V$$

$$V_f = 2,8V$$

$$I_f = 0,05A$$

$$I_a$$

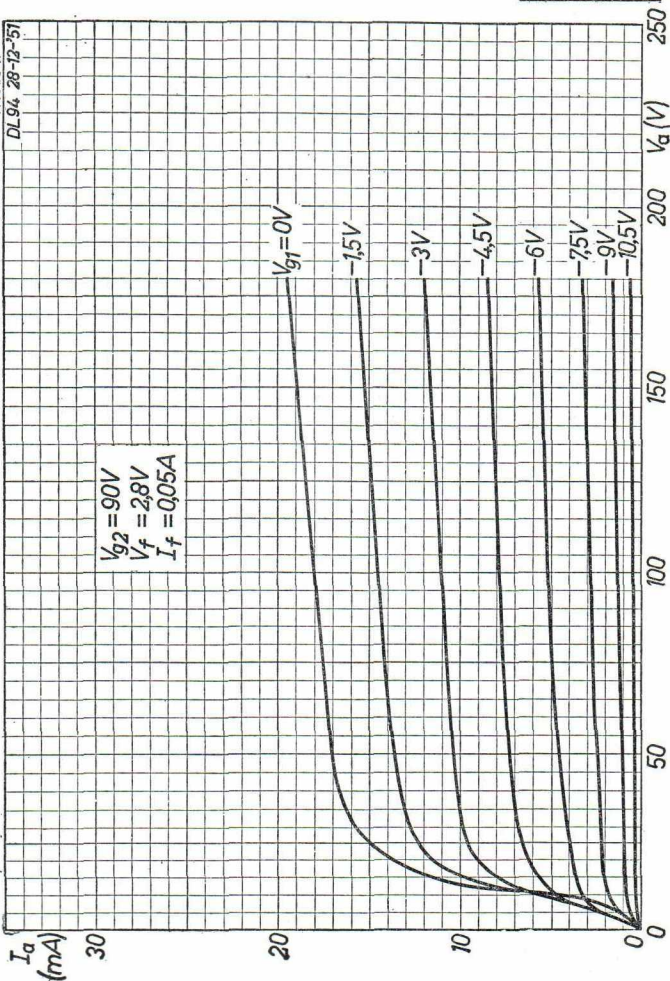
$$I_{g2}$$



G

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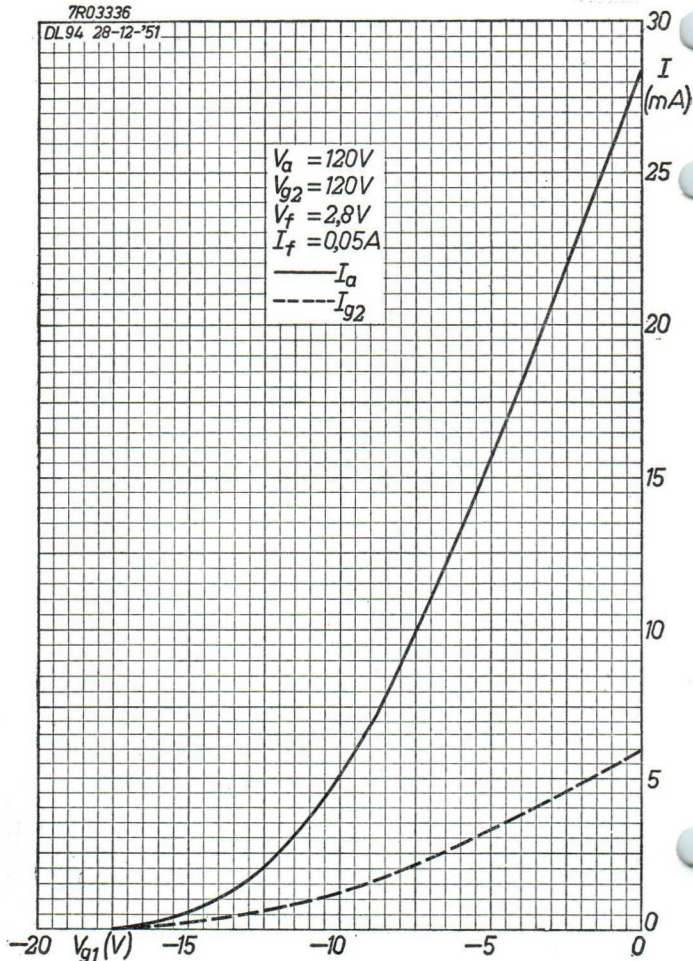
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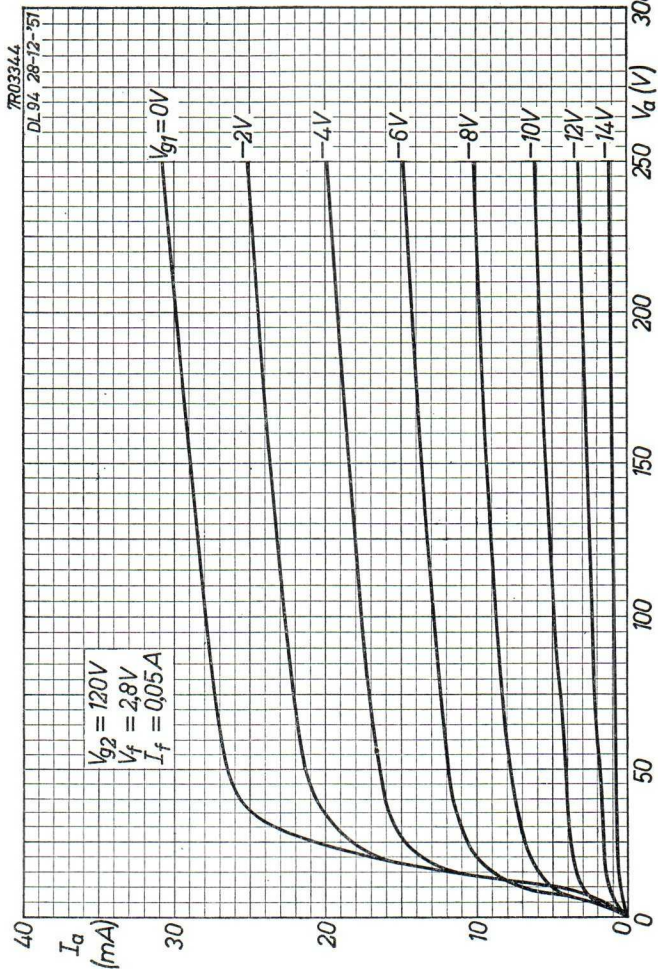


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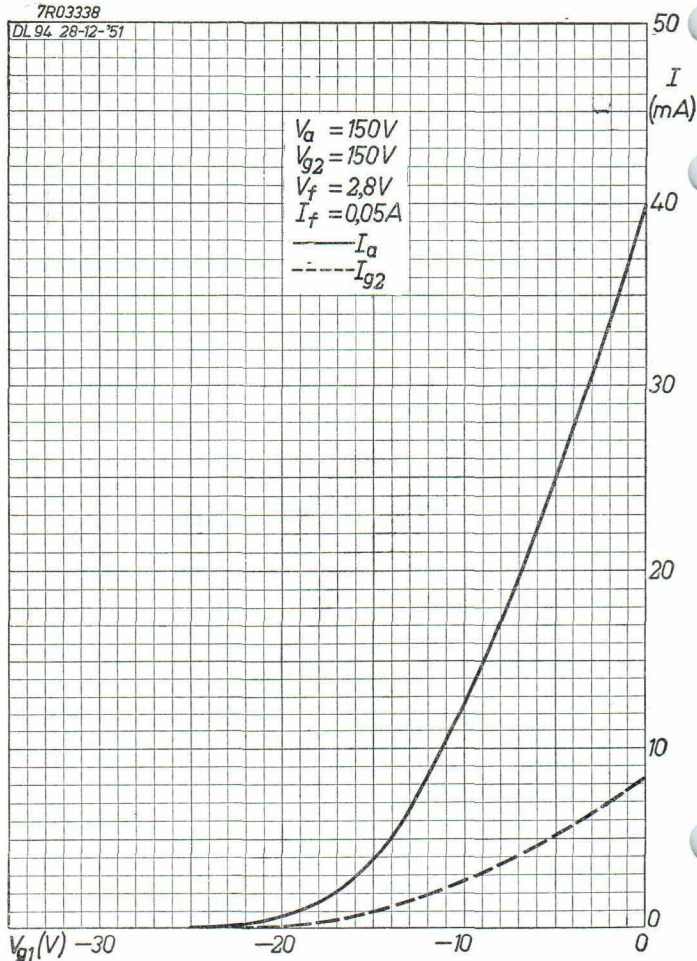
**I**



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