

HEPTODE for use as frequency changer in battery sets
 HEPTODE pour l'utilisation en changeuse de fréquence dans des appareils batterie
 HEPTODE zur Verwendung als Mischröhre in Batteriegeräten

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.;

Heizung: direkt durch Batteriestrom, gleichgerichteten Wechselstrom oder Gleichstrom;
 Serien- oder Parallelspeisung

Parallel supply: $V_f = 1,4 \text{ V}$

Alimentation en parallèle: $I_f = 0,050 \text{ A}$

Parallelspeisung:

Series supply: $V_f = 1,3 \text{ V}$

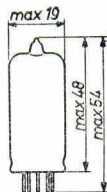
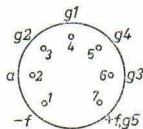
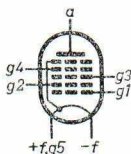
Alimentation en série:

Serienspeisung:

Dimensions in mm

Dimensions en mm

Abmessungen in mm



Base, culot, Sockel: MINIATURE

Capacitances

Capacités

Kapazitäten

$C_a = 8,4 \text{ pF}$

$C_{g3} = 7,5 \text{ pF}$

$C_{g2} = 4,8 \text{ pF}$

$C_{g1} = 3,9 \text{ pF}$

$C_{ag3} < 0,36 \text{ pF}$

$C_{ag2} < 0,3 \text{ pF}$

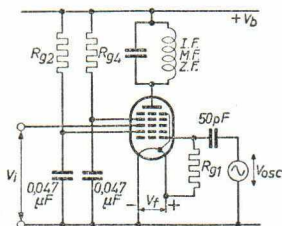
$C_{ag1} < 0,11 \text{ pF}$

$C_{g1g3} < 0,2 \text{ pF}$

$C_{g1g2} = 3,0 \text{ pF}$

$C_{g2g3} = 1,6 \text{ pF}$

Operating characteristics with separate excitation
Caractéristiques d'utilisation à excitation séparée
Betriebsdaten mit Fremderregung



V_b ¹⁾	=	41	63,5	85 V
V_a	=	41	63,5	85 V
V_{g4}	=	41	63,5	60 V
V_{g3}	=	0	0	0 V
V_{g2}	=	29	30	30 V
V_{osc}	=	2,5	4	4 V_{eff}
R_{g4}	=	0	0	180 k Ω
R_{g2}	=	6,8	22	33 k Ω
R_{g1}	=	27	27	27 k Ω
I_a	=	0,25	0,70	0,65 mA
I_{g4}	=	0,09	0,15	0,14 mA
I_{g2}	=	1,75	1,55	1,65 mA
I_{g1}	=	80	130	130 μ A
S_c ²⁾	=	180	300	325 μ A/V
$S_c (V_{g3} = -2,9V)$	=	1,8		μ A/V
$S_c (V_{g3} = -4V)$	=		3,0	μ A/V
$S_c (V_{g3} = -6V)$	=			3,25 μ A/V
R_i	=	0,75	0,9	1,0 M Ω
R_{eq}	=	115	120	100 k Ω

¹⁾ Based on a battery voltage of 45, 67.5 or 90 V reduced by the neg. bias for the output valve.
Se basant sur une tension de batterie de 45, 67,5 ou 90 V, diminuée avec la polarisation négative du tube de sortie.

Basiert auf einer Batteriesp. von 45, 67,5 oder 90V, verringert mit der neg. Vorsp. der Endröhre

²⁾ See page 3; voir page 3; siehe Seite 3.

Typical characteristics of the oscillator section
(g1 connected to +f)

Caractéristiques types de la partie oscillatrice
(g1 connecté à +f)

Kenndaten des Oszillatorteiles (g1 verbunden mit +f)

V_a	=	41	63,5	85 V
V_{g4}	=	41	63,5	60 V
V_{g3}	=	0	0	0 V
V_{g2}	=	29	30	30 V
I_{g2}	=	3	2,2	2,5 mA
S_{g2g1}	=	1,1	0,8	0,9 mA/V
μ_{g2g1}	=	9	7,5	7,5

Limiting values

Caractéristiques limites

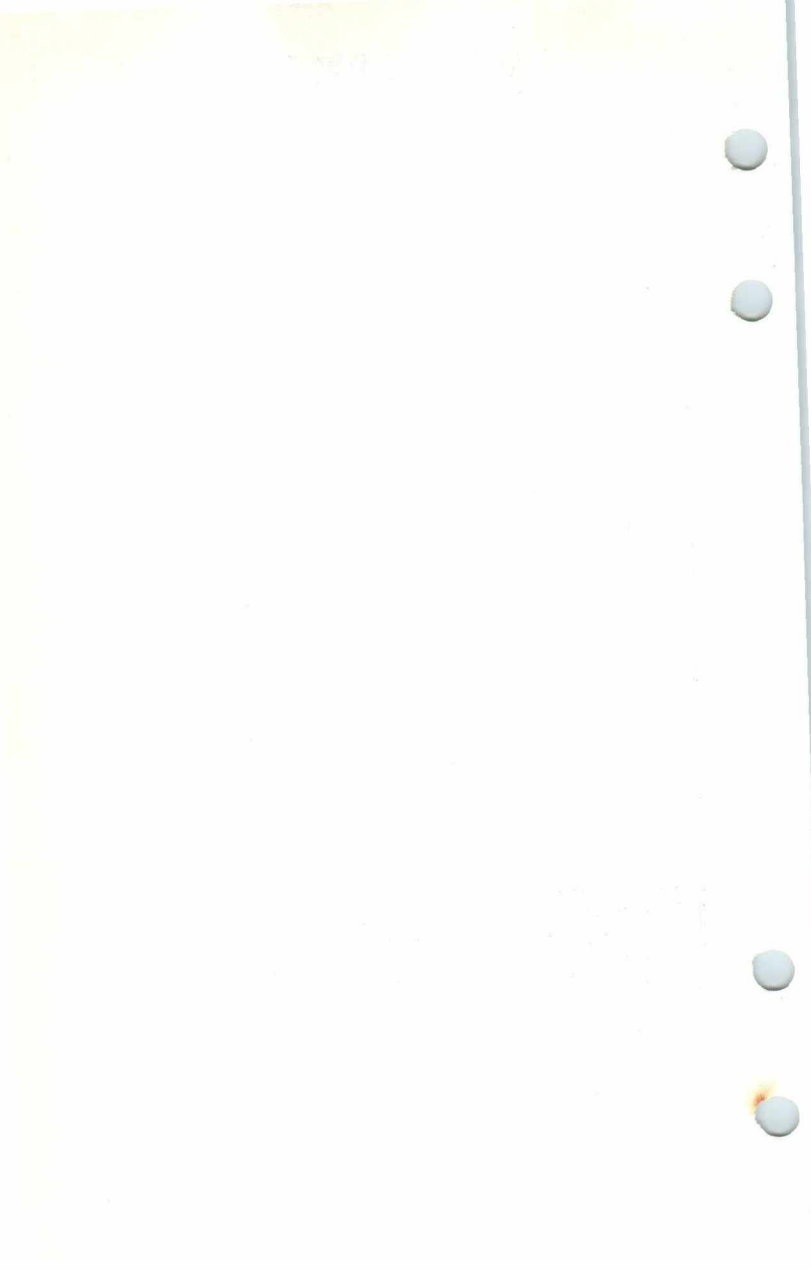
Grenzdaten

V_b	= max.	120 V
V_b	= max.	140 V ³⁾
V_a	= max.	90 V
W_a	= max.	0,2 W
V_{g4}	= max.	90 V
W_{g4}	= max.	0,1 W
V_{g2}	= max.	60 V
W_{g2}	= max.	0,2 W
I_k	= max.	4 mA
R_{g3}	= max.	3 M Ω
$V_{g1}(I_{g1}=+0,3\mu A)$	= max.	+0,75 V

²⁾ With self-excitation S_c will be a few per cent smaller; in general grid-tuning is recommended
Avec auto-excitation S_c sera plus petit de quelques pour cents; en général la syntonisation du circuit de la grille 1 est recommandé

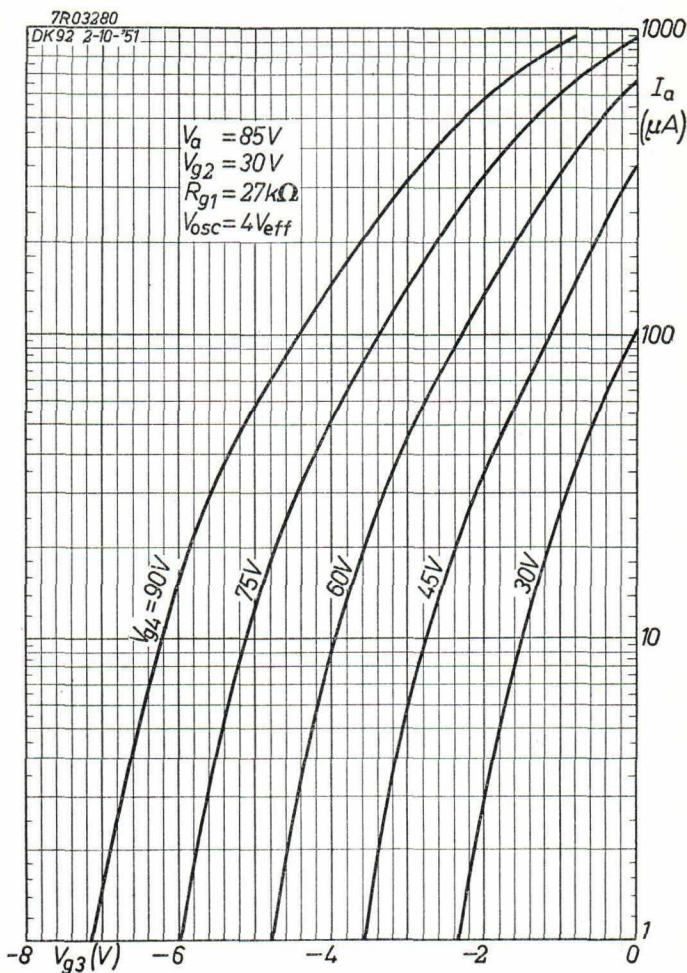
Mit Selbsterregung wird S_c um einige Prozente kleiner sein; im allgemeinen wird Abstimmung des ersten Gitterkreises empfohlen

³⁾ Absolute value; valeur absolue; Absolutwert



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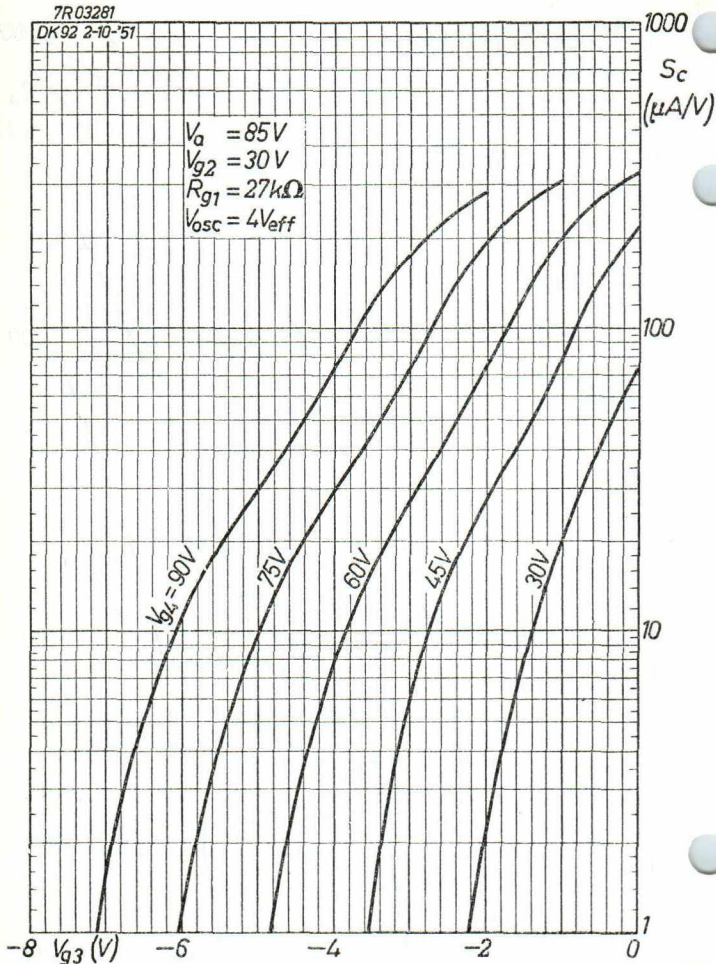
10.10.1951

A

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7R03281

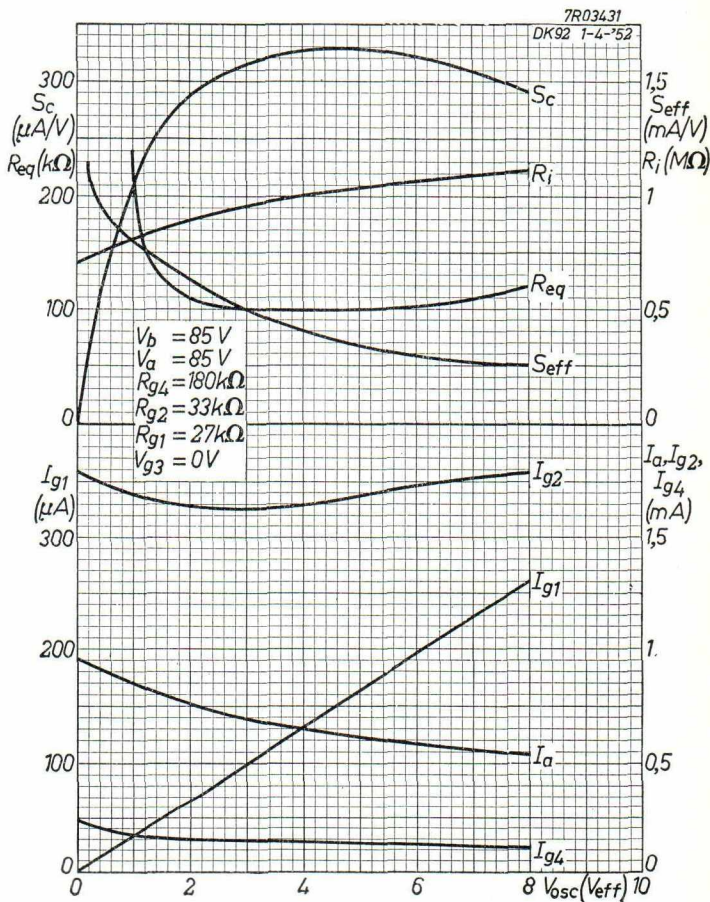
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B

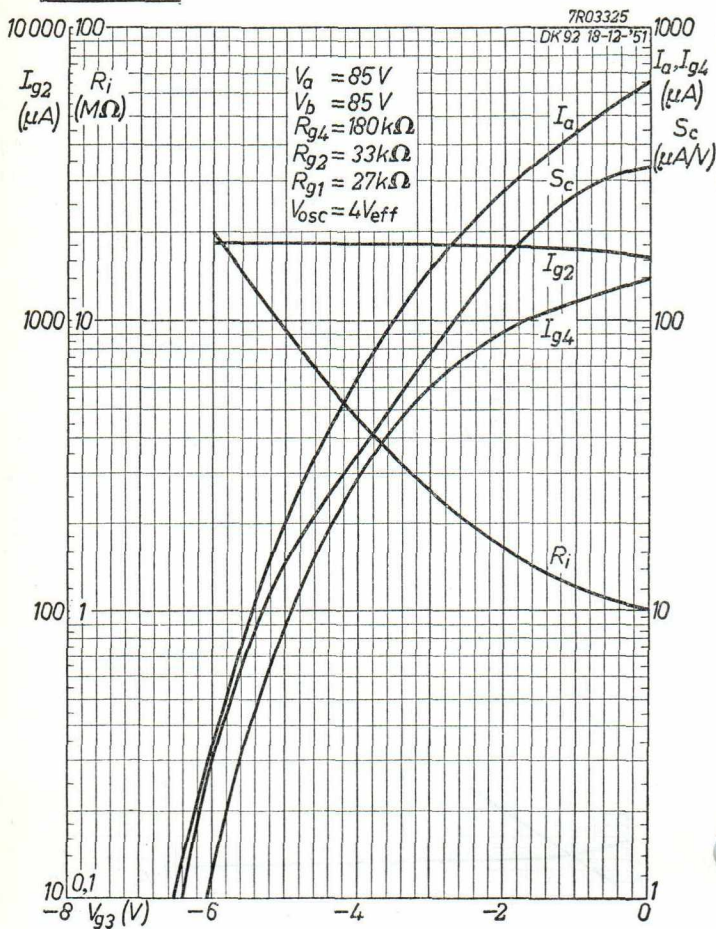
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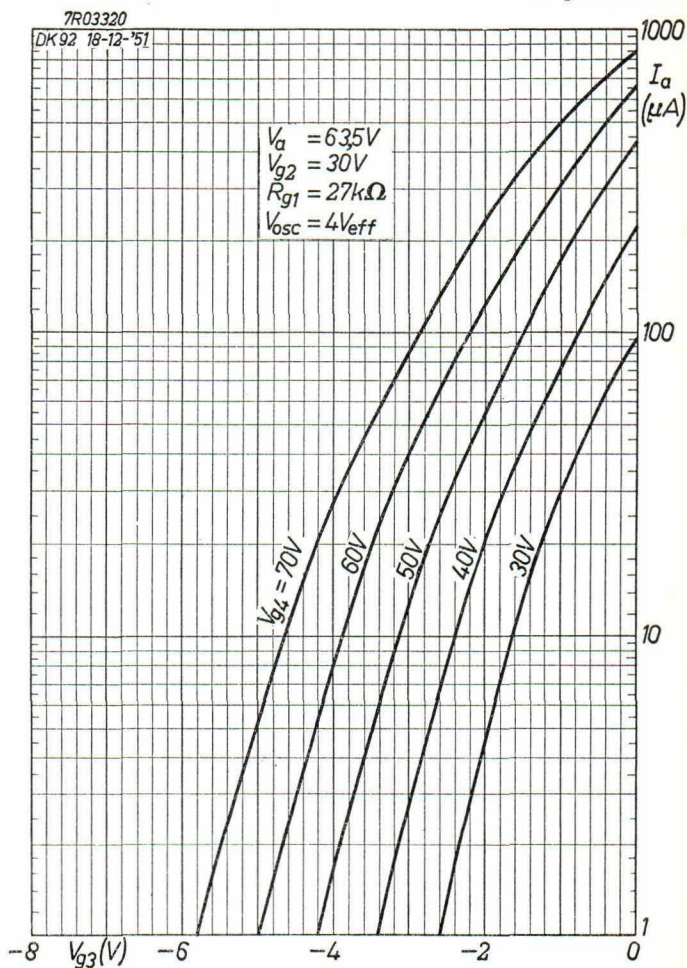
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C

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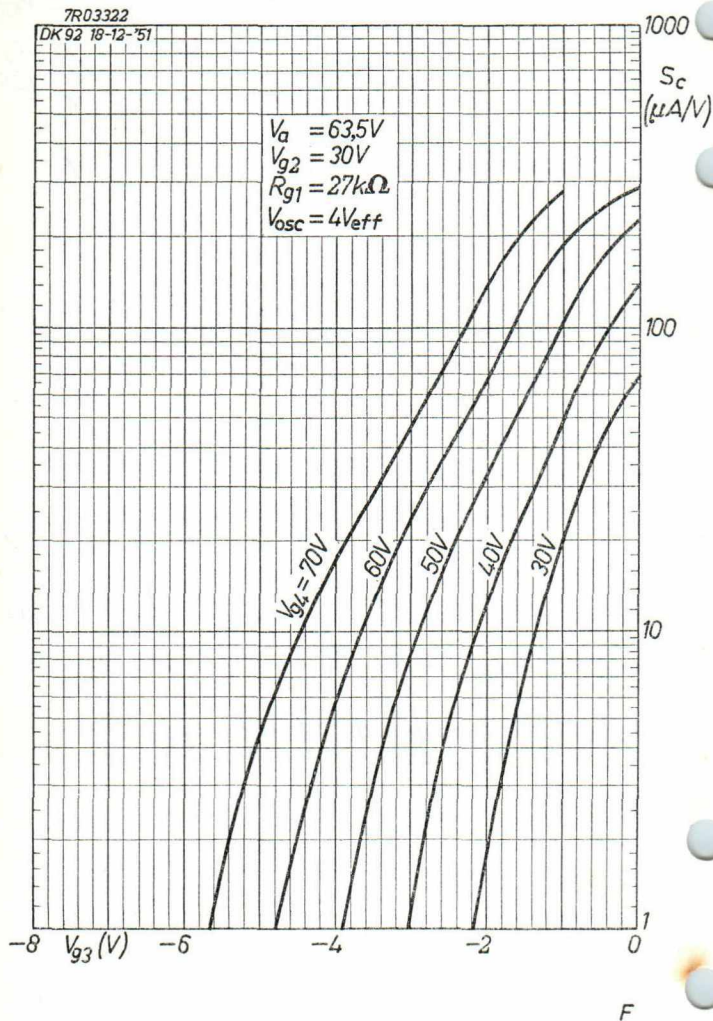
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E

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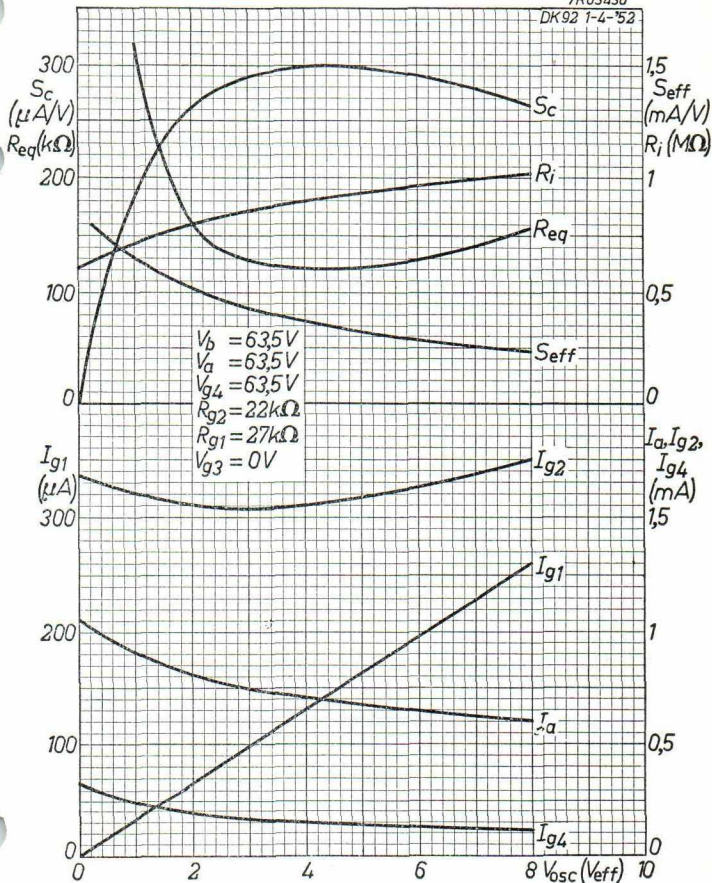
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DK 92 18-12-'51



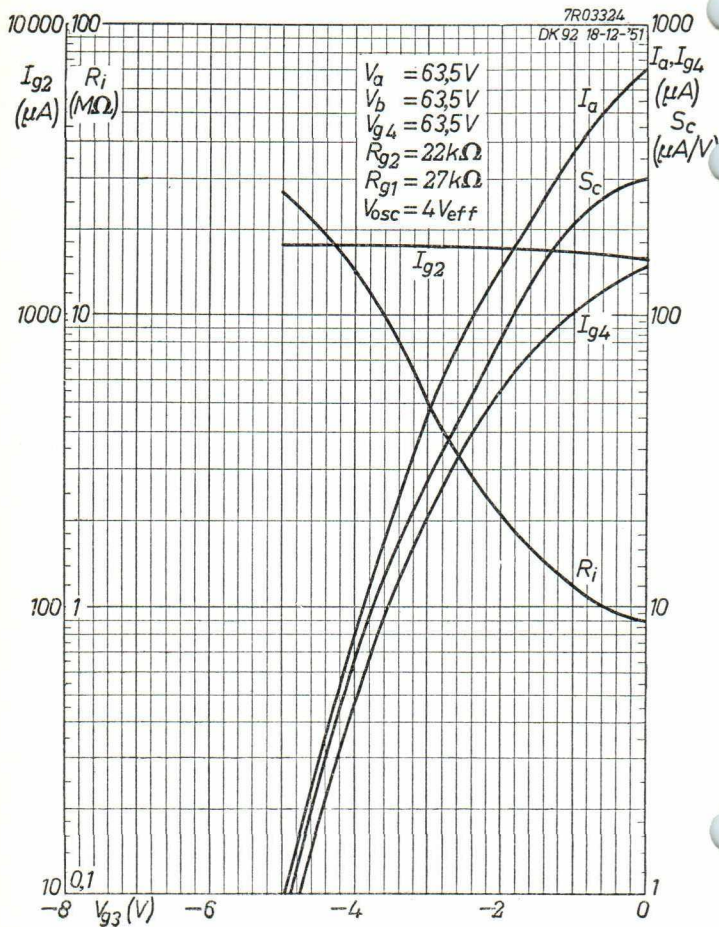
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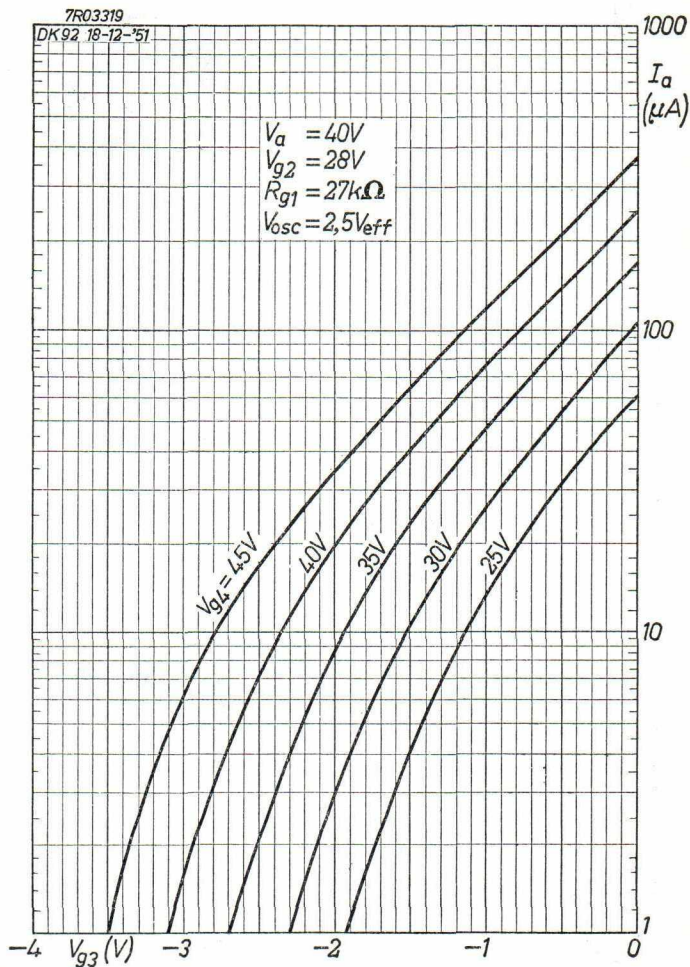
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G

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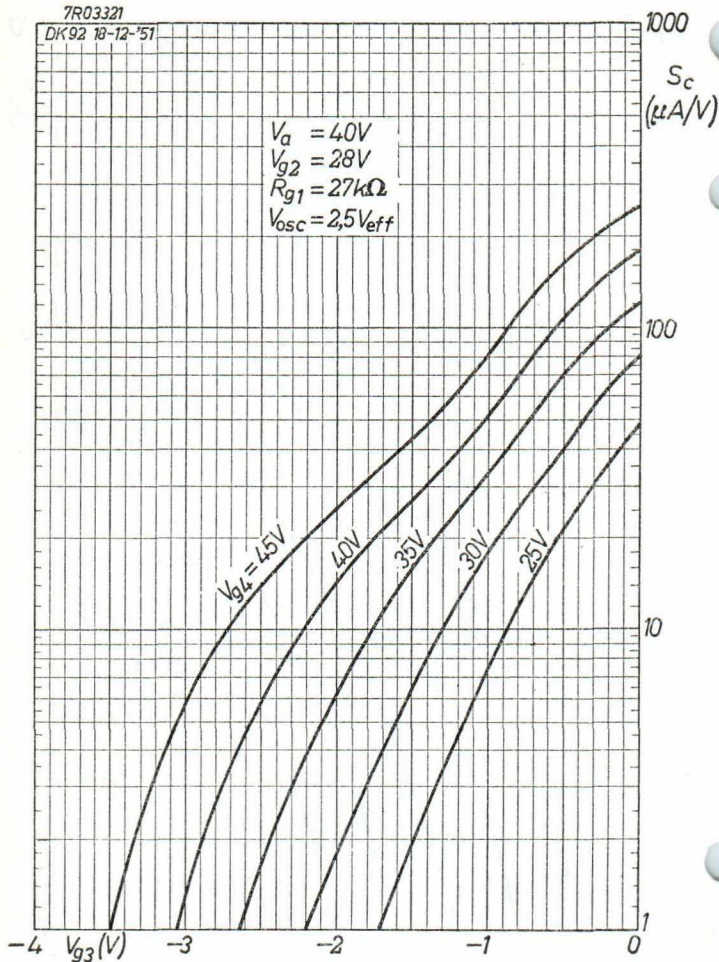
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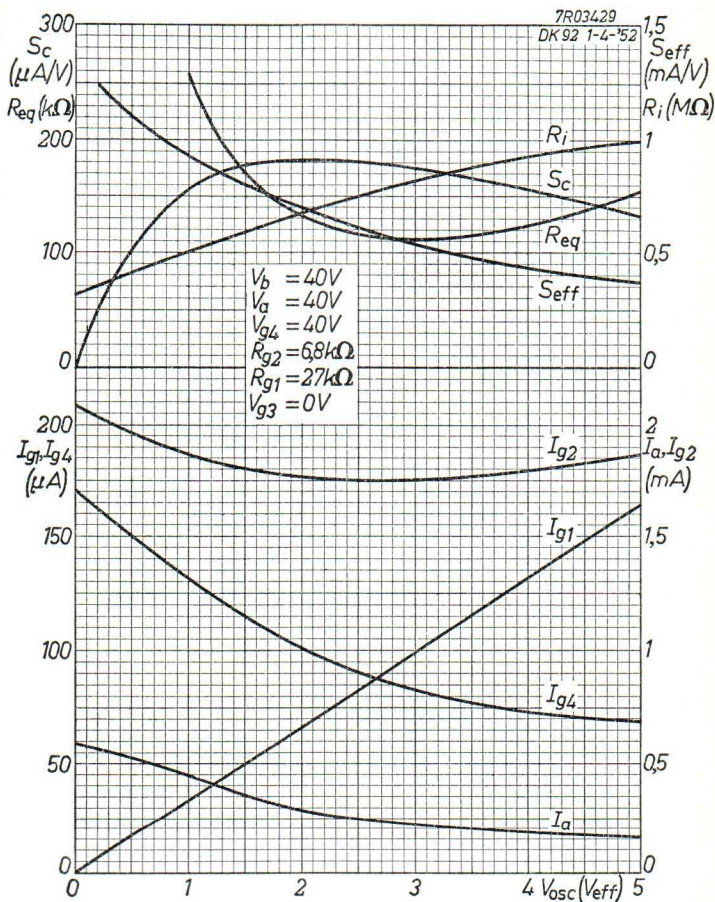
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7R03321

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$V_a = 40V$
 $V_{g2} = 28V$
 $R_{g1} = 27k\Omega$
 $V_{osc} = 2,5V_{eff}$





4.4.1952

K

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