

Netzröhre für GW-Heizung
 indirekt geheizt
 Serienspeisung
 DC-AC-Heating
 indirectly heated
 connected in series

PCF 200

TELEFUNKEN

Triode/Pentode

Triode: Impulsabtrennstufe, Begrenzerstufe, getastete Schwundregelung, Stördetektor
 Pulse separator stage, limiter, gated AGC, noise inverter

Pentode: Ton-ZF-Verstärker, Video-ZF-Verstärker
 AF/IF amplifier, video IF amplifier

I_f **300** mA
 U_f ca. 8 V

Normierte Anheizzeit · Normalized heater warm-up time

Meßwerte · Measuring values

Triode

U_a	170	V
U_g	-1	V
I_a	8,5	mA
S	5,2	mA/V
μ	57	

Pentode

U_a	160	V
U_{g3}	0	V
U_{g2}	135	V
U_{g1}	-1,7	V
I_a	13	mA
I_{g2}	5,3	mA
S	14	mA/V
$\mu_{g2/g1}$	53	



Betriebswerte · Typical operation

Triode

Impulsabtrennstufe
Pulse separator stage

U_b	130 ... 150	V
R_a	33	k Ω
I_a	> 2	mA
I_g	1	μ A

Pentode

Video- oder Ton-ZF-Verstärker
Video or AF/IF amplifier

g_3 an Masse · g_3 to ground

U_b	210	230	V
R_{av}	3,9	5,6	k Ω
R_{g2}	15	22	k Ω
R_k	91	83	Ω
I_a	13	12,5	mA
I_{g2}	5,3	5,1	mA
S	14	14	mA/V
g_{ein} (40 MHz) ¹⁾	150	150	μ S

Nennwert-Grenzdaten · Design centre ratings

Triode

U_{ao}	550	V
U_{asp} ²⁾	600	V
U_a	250	V
N_a	1,5	W
I_k	18	mA
R_g	1	M Ω
$U_{f/k}$	150	V
$U_{f/k}$ ³⁾	350	V
$R_{f/k}$	50	k Ω

Pentode

U_{ao}	550	V
U_a	250	V
N_a	2,1	W
U_{g2o}	550	V
U_{g2}	250	V
N_{g2}	0,75	W
I_k	20	mA
R_{g1}	1	M Ω
$U_{f/k}$	± 150	V

¹⁾ in üblicher Fassung · in usual socket

²⁾ $I_a < 0,1$ mA, Impulszeit · pulse time max. 18% per Periode, $t_{max} = 18 \mu$ s

³⁾ Gleichstromanteil max. +200 V
DC component



Kapazitäten · Capacitances

Triode

c_e	2,1	pF
c_a	3	pF
$c_{g/a}$	2,2	pF

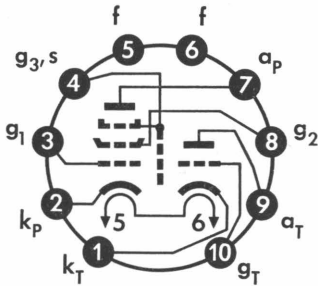
Pentode

c_e	6	pF
c_a	3,3	pF
$c_{g1/k}$	3,7	pF
$c_{g1/a}$	0,0056	pF
$c_{g1/g2}$	1,7	pF

zwischen Triode/Pentode
between triode/pentode

$c_{aP/aT}$	\leq	0,015	pF
$c_{g1/aT}$	\leq	0,0012	pF
$c_{g1/gT}$	\leq	0,0015	pF

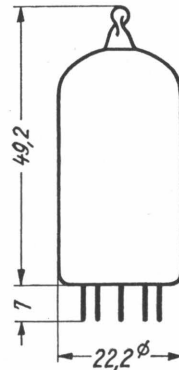
Sockelschaltbild
Basing diagram



Dekal

Einbau beliebig
Mounting position: any

max. Abmessungen
max. dimensions

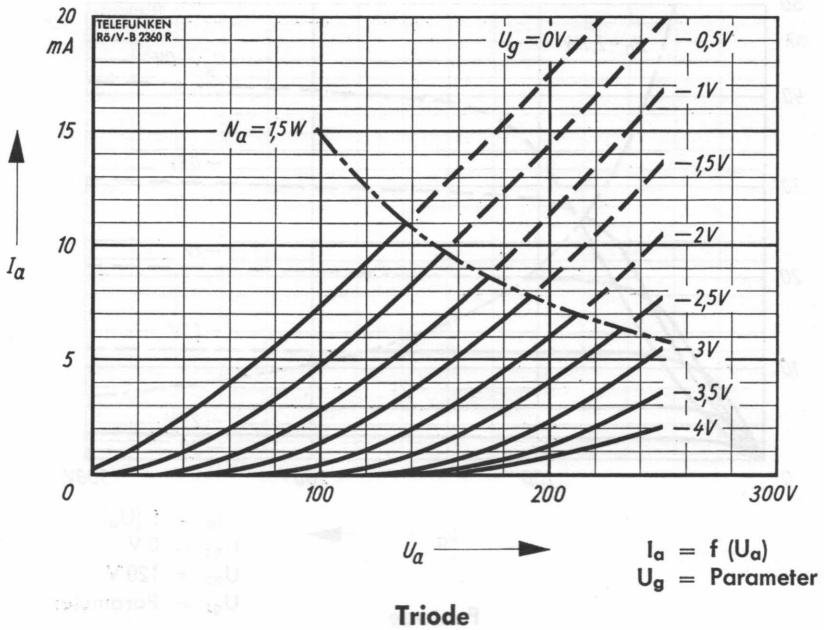
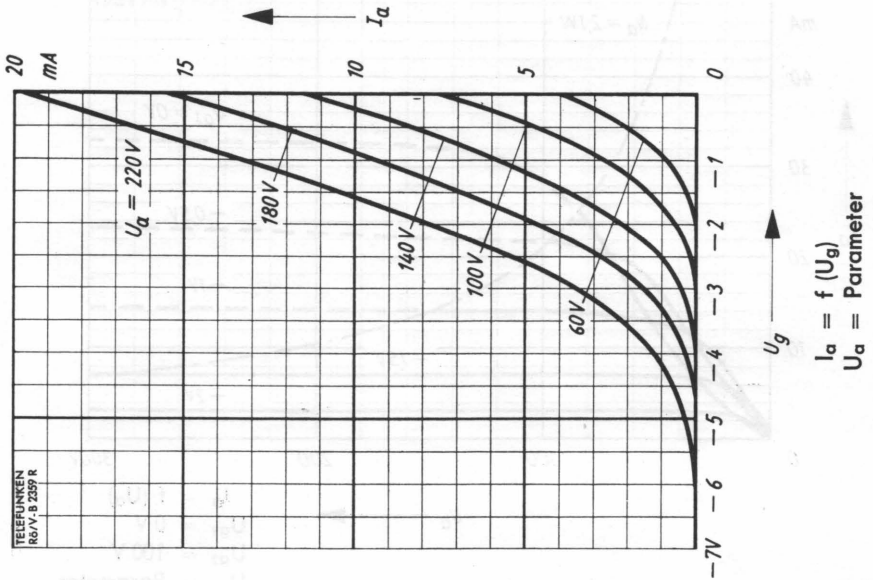


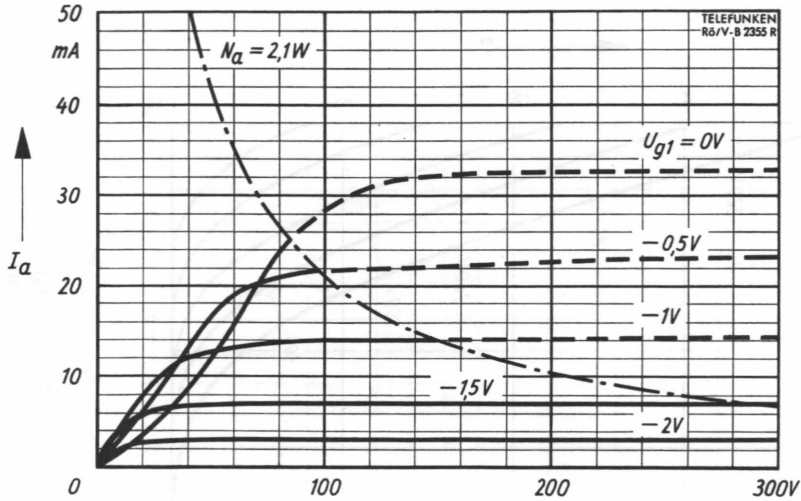
Gewicht · Weight
max. 14 g

Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.
If necessary special precautions must be taken to prevent the tube form becoming dislodged from the socket.

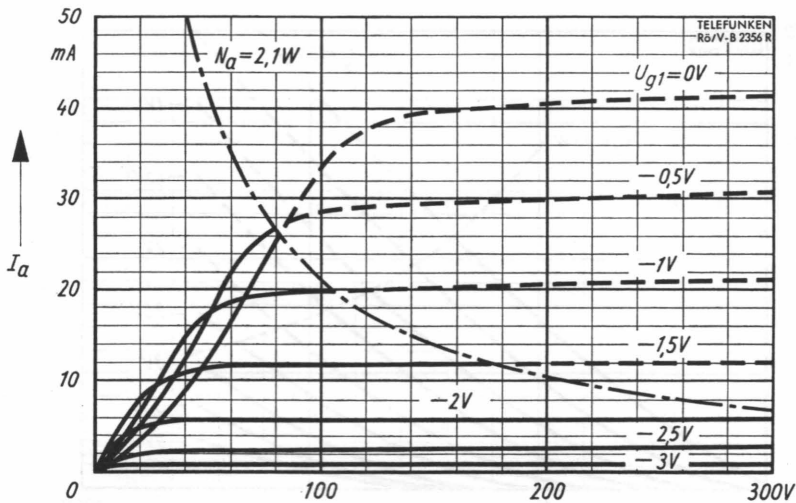
1950







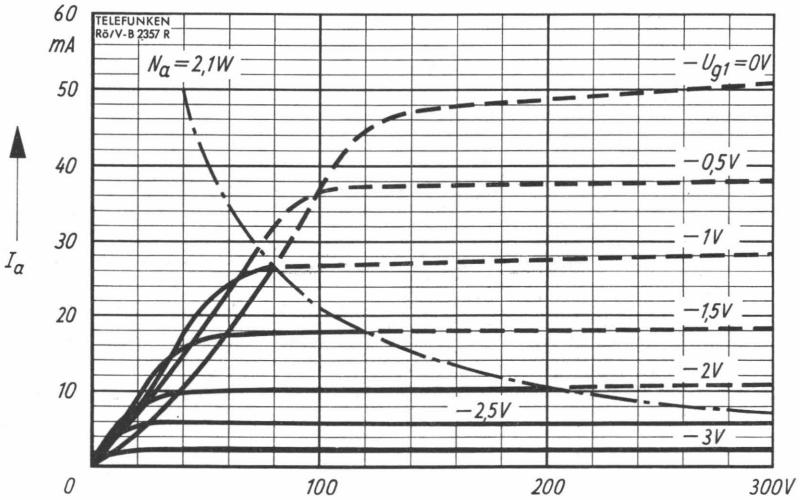
$I_a = f(U_a)$
 $U_{g3} = 0V$
 $U_{g2} = 100V$
 $U_{g1} = \text{Parameter}$



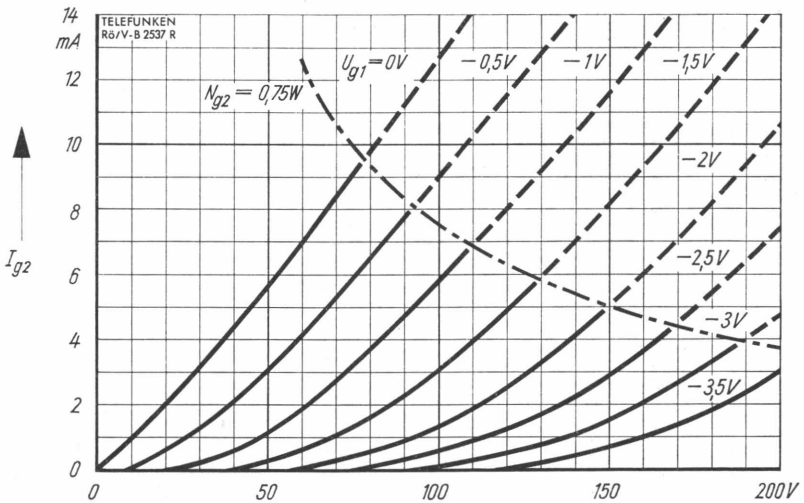
$I_a = f(U_a)$
 $U_{g3} = 0V$
 $U_{g2} = 120V$
 $U_{g1} = \text{Parameter}$

Pentode





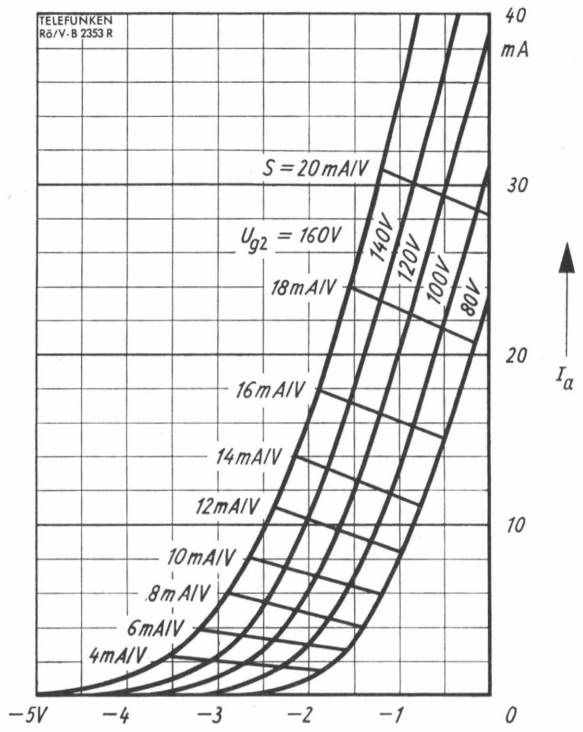
$I_a = f(U_a)$
 $U_{g3} = 0V$
 $U_{g2} = 140V$
 $U_{g1} = \text{Parameter}$



$I_{g2} = f(U_{g2})$
 $U_a = 100 \dots 250V$
 $U_{g3} = 0V$
 $U_{g1} = \text{Parameter}$

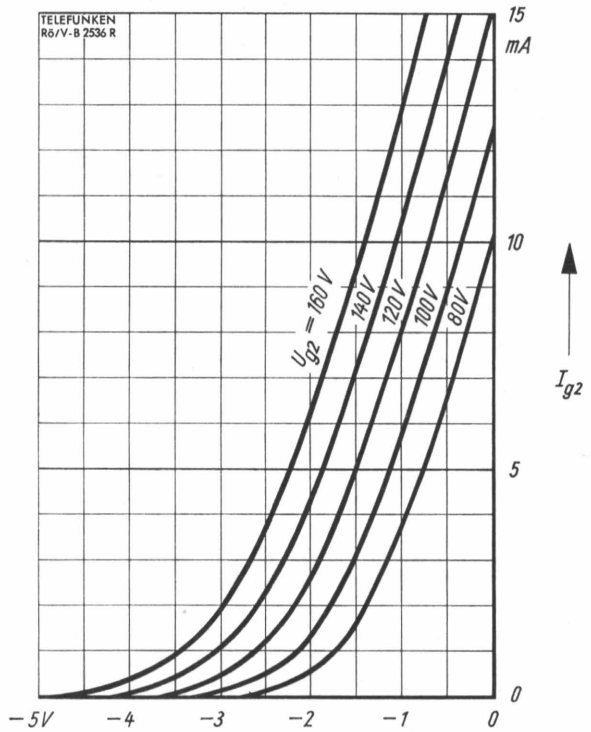
Pentode





U_{g1} →

$I_a = f(U_{g1})$
 $U_a = 100 \dots 250 \text{ V}$
 $U_{g3} = 0 \text{ V}$
 $U_{g2} = \text{Parameter}$



U_{g1} →

$I_{g2} = f(U_{g1})$
 $U_a = 100 \dots 250 \text{ V}$
 $U_{g3} = 0 \text{ V}$
 $U_{g2} = \text{Parameter}$

Pentode