

Netzröhre für GW-Heizung  
indirekt geheizt  
Parallelspeisung  
DC-AC-Heating  
indirectly heated  
connected in parallel

# TELEFUNKEN

**EL 152**

**FL 152**

**85 W-Pentode**

<b>EL 152</b>	$U_f$	<b>6,3</b>	V
	$I_f$	ca. 1,55	A
<b>FL 152</b>	$U_f$	<b>12,6</b>	V
	$I_f$	ca. 0,8	A

## Meßwerte · Measuring values

$U_a$	<b>800</b>	V
$U_{g2}$	<b>250</b>	V
$U_{g3}$	<b>0</b>	V
$R_k$	<b>800</b>	$\Omega$
$I_a$	50	mA
$I_{g2}$	1	mA
$S$	4	mA/V
$\mu_{g2g1}$	5	
$R_i$	60	k $\Omega$

## Kapazitäten · Capacitances

$C_e$	14,5	pF
$C_a$	10	pF
$C_{g1/a}$	$\leq$ 0,11	pF

## Betriebswerte · Typical operation

HF-Verstärker, B-Betrieb  
RF-amplifier, class B

$f$	$\leq$ <b>120</b>	MHz
$U_a$	<b>600</b>	V
$U_{g2}$	<b>250</b>	V
$U_{g1}$	— <b>80</b>	V
$U_{g1\sim sp}$	ca. 110	V
$I_a$	ca. 130	mA
$I_{g2}$	ca. 10	mA
$I_{g1}$	ca. 7	mA
$N_{stHF}$	ca. 4	W
$N_{HF}$	ca. 40	W
$R_a$	ca. 2	k $\Omega$

HF-Verstärker, Vorstufen-Modulation  
RF-amplifier, pre-stage modulation

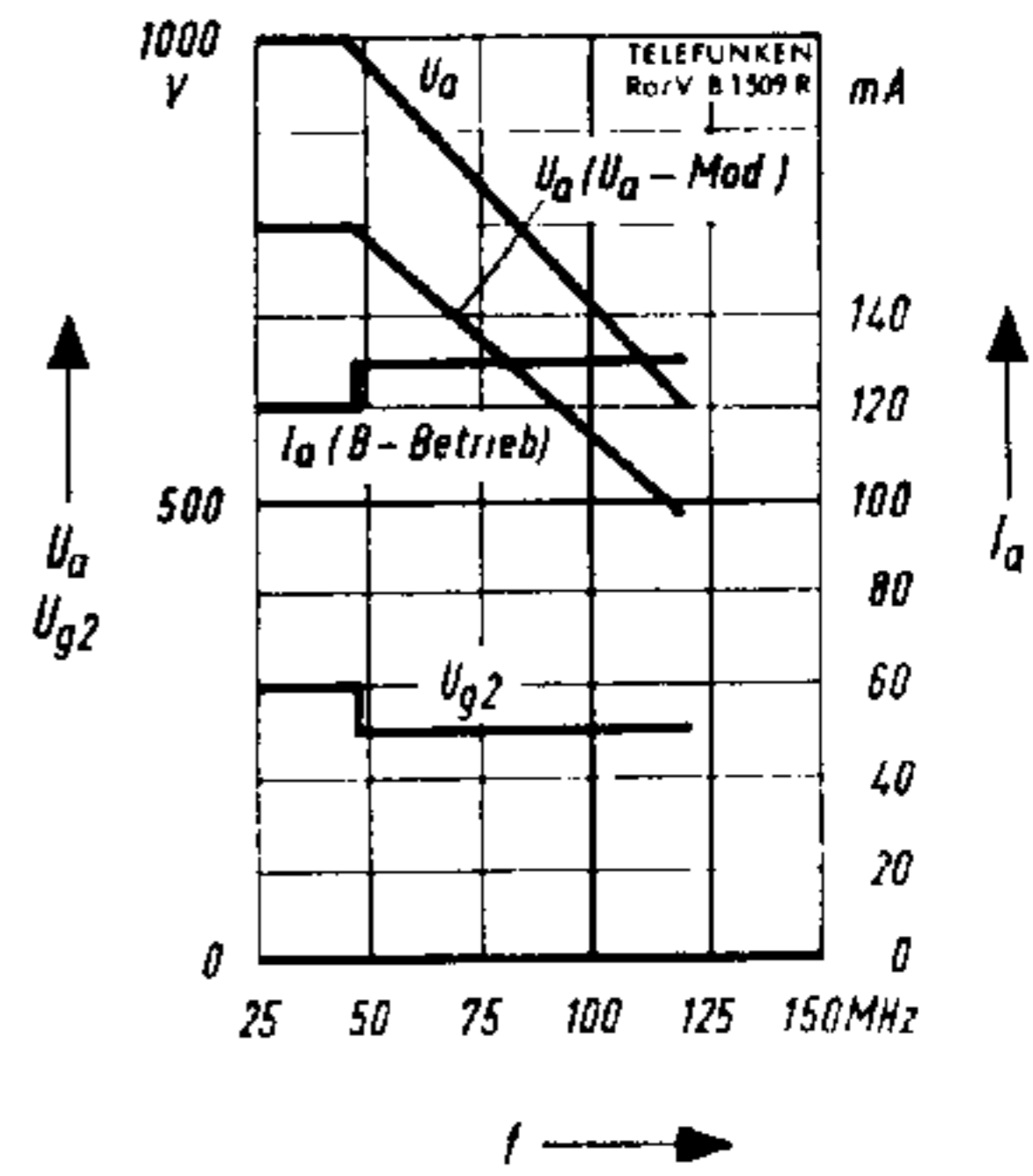
$f$	$\leq$ <b>45</b>	MHz
$U_a$	<b>1000</b>	V
$U_{g2}$	<b>300</b>	V
$U_{g1}$	ca. —60	V
$U_{g1\sim sp}$	ca. 55	V
$I_{ao}$	30	mA
$I_a$	ca. 100	mA
$I_{g2}$	ca. 9	mA
$N_{HF}$	70	W
$R_a$	6	k $\Omega$



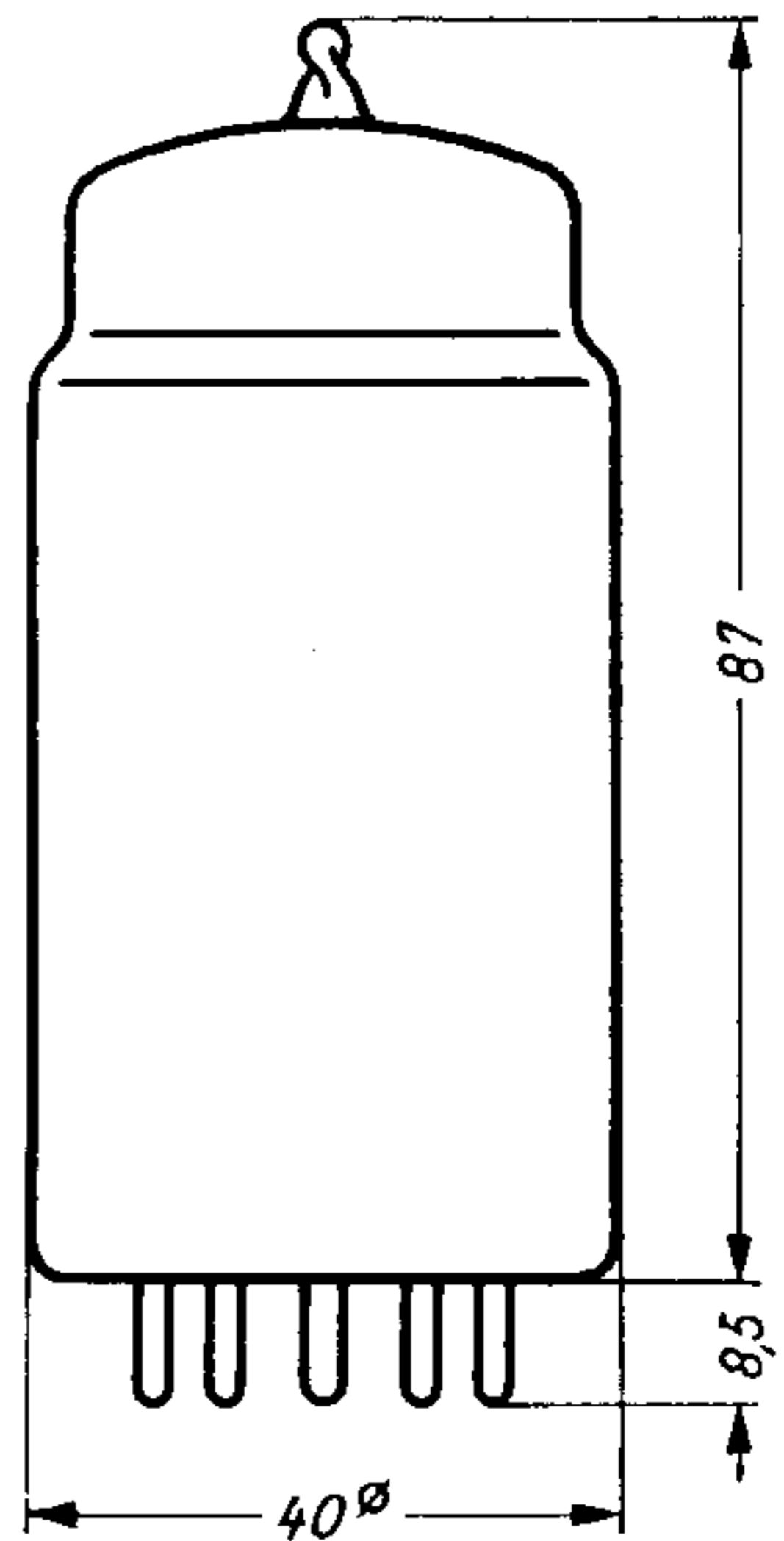
## Grenzwerte · Maximum ratings

siehe nebenstehendes Bild  
see diagram opposite  
für  $f = 45 \text{ MHz}$

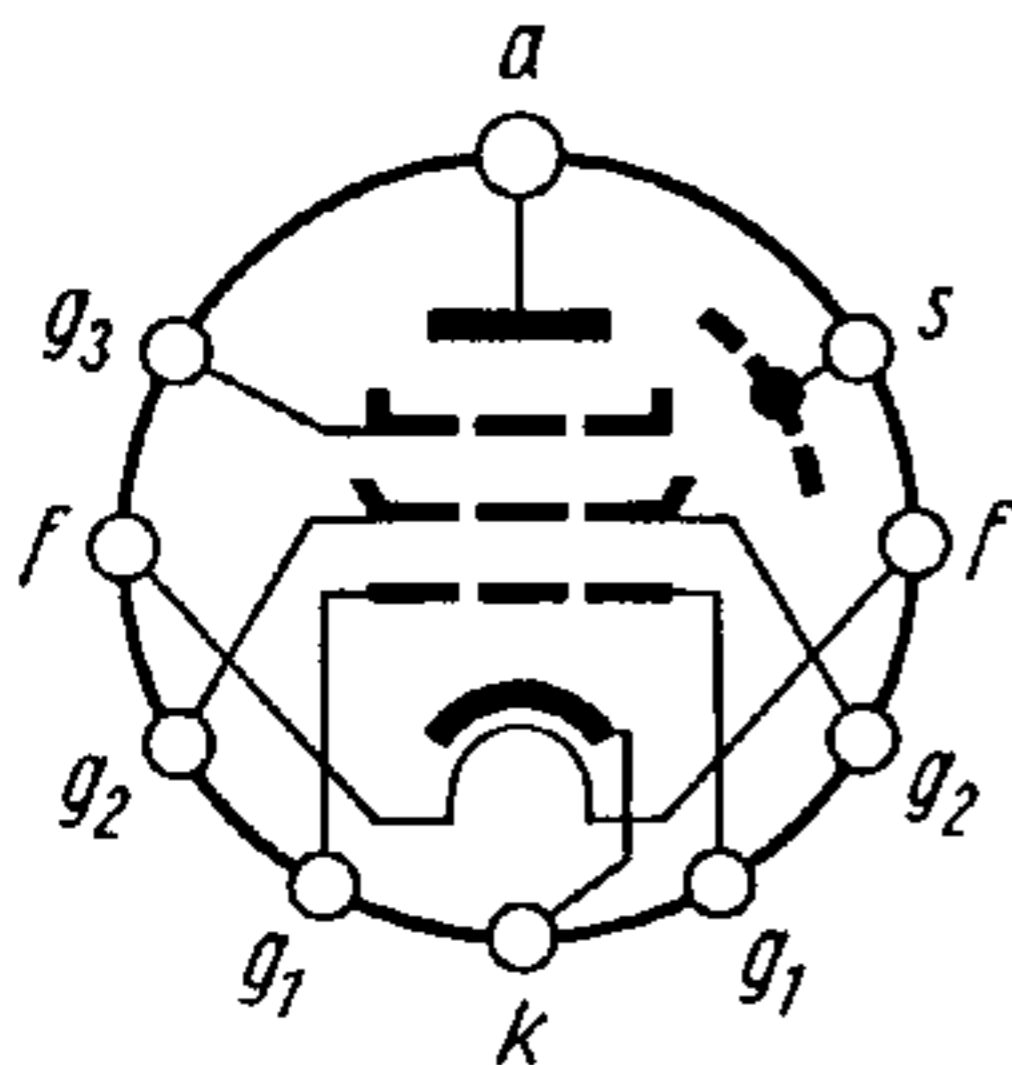
$U_a$	<b>1000</b>	V
$U_{asp}$	<b>3000</b>	V
$Q_a$	<b>40</b>	W
$-U_{g3}$	<b>400</b>	V
$Q_{g3}$	<b>1</b>	W
$R_{g3}$	<b>25</b>	k $\Omega$
$U_{g20}$	<b>800</b>	V
$U_{g2}$	<b>300</b>	V
$Q_{g2}$	<b>5</b>	W
$-U_{g1}$	<b>300</b>	V
$Q_{g1}$	<b>1</b>	W
$R_{g1}$	<b>25</b>	k $\Omega$
$I_k$	<b>230</b>	mA
$U_{f/k}$	<b>200</b>	V
$R_{f/k}$	<b>5</b>	k $\Omega$
$t_{\text{Kolben}}$	<b>300</b>	$^{\circ}\text{C}$
$f_{\text{max}}$	<b>120</b>	MHz



max. Abmessungen  
max. dimensions



Sockelschaltbild  
Base connection

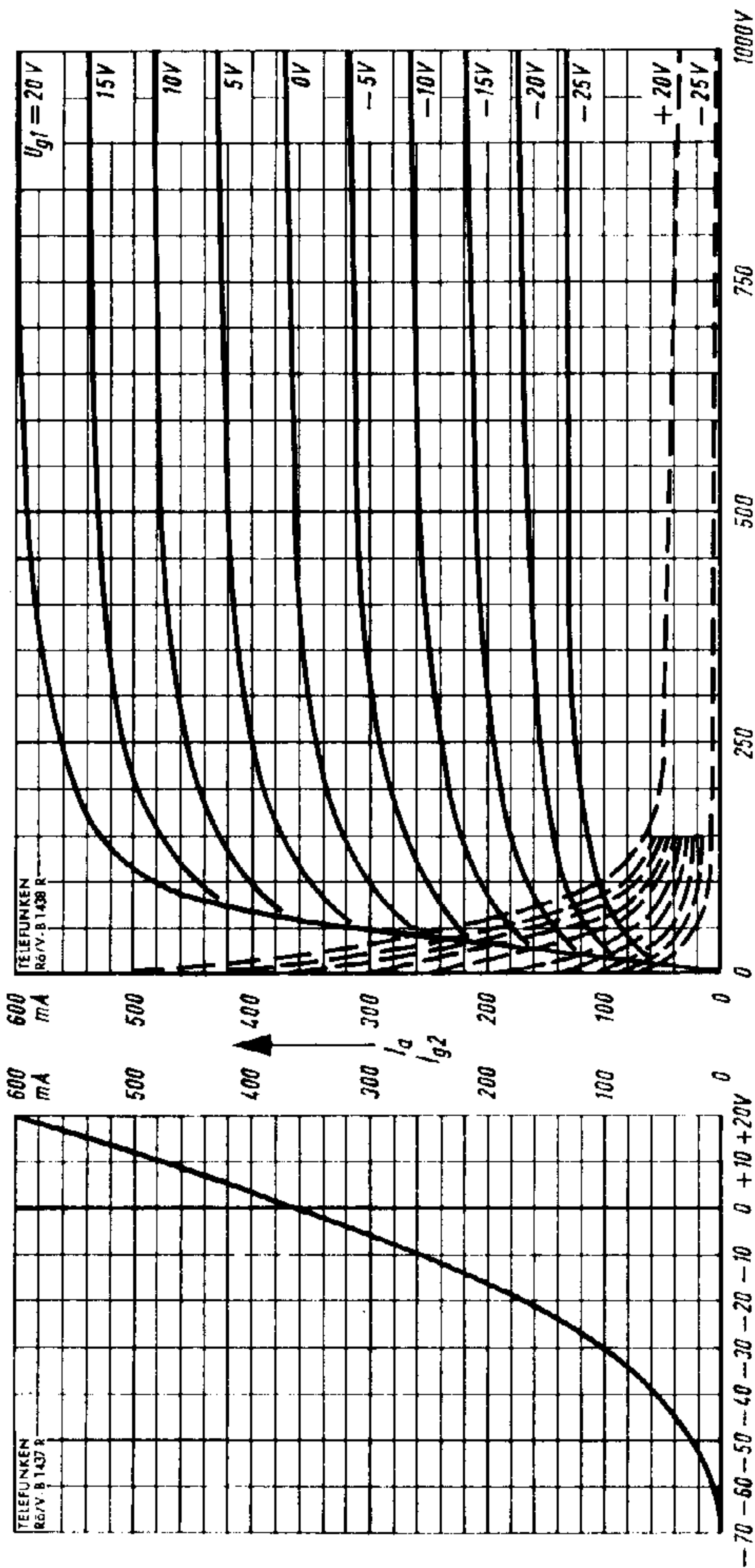


Zubehör · Accessories  
Fassung Lg.-Nr. 30216  
Socket stock no. 30216

Gewicht · Weight  
max. 45 g

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





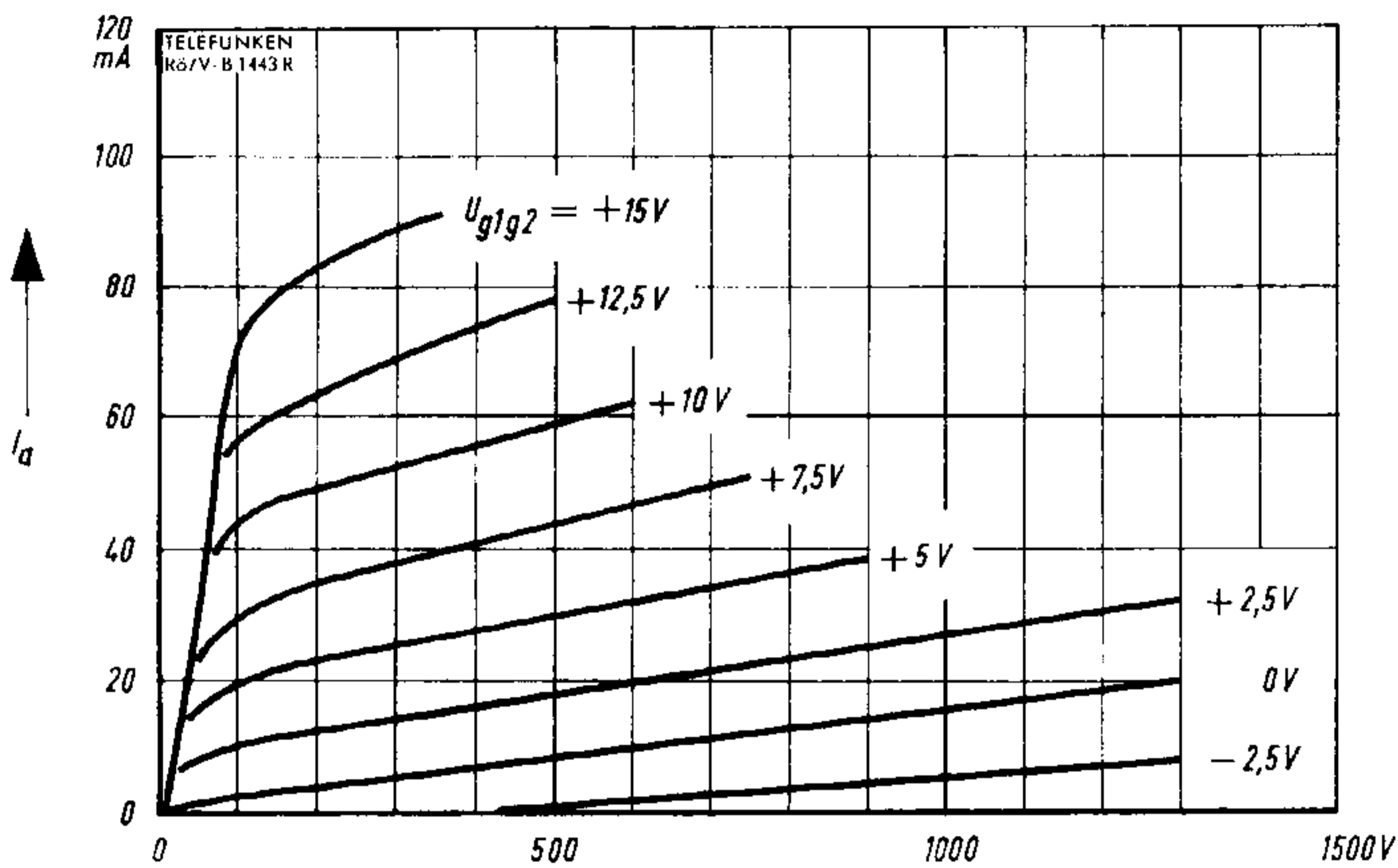
$I_a = f(U_{g1})$   
 $U_a = 1000 \text{ V}$   
 $U_{g3} = 0 \text{ V}$   
 $U_{g2} = 250 \text{ V}$

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

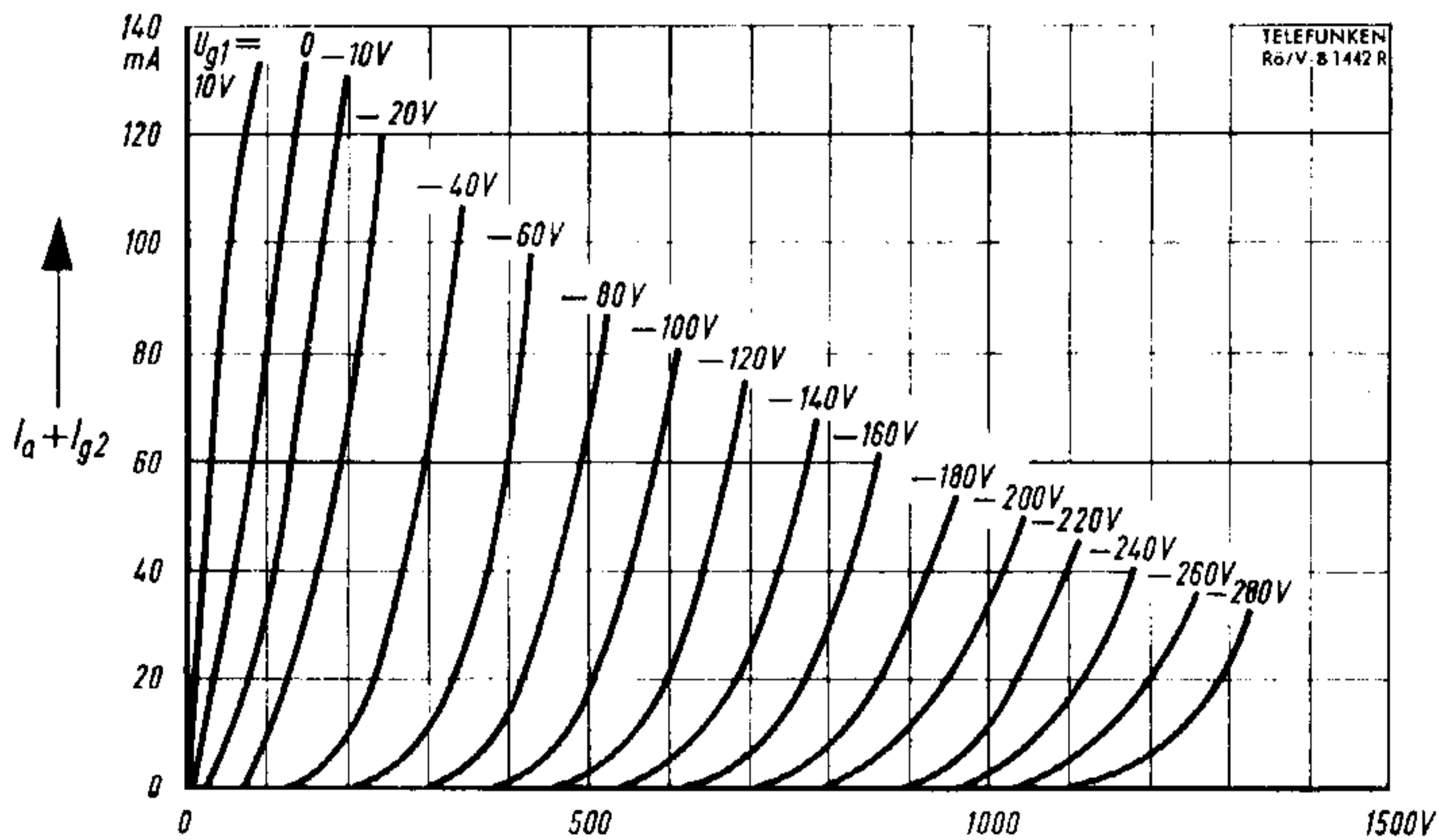
- - - -  $I_{g2}$   
 ———  $I_a$



# TELEFUNKEN



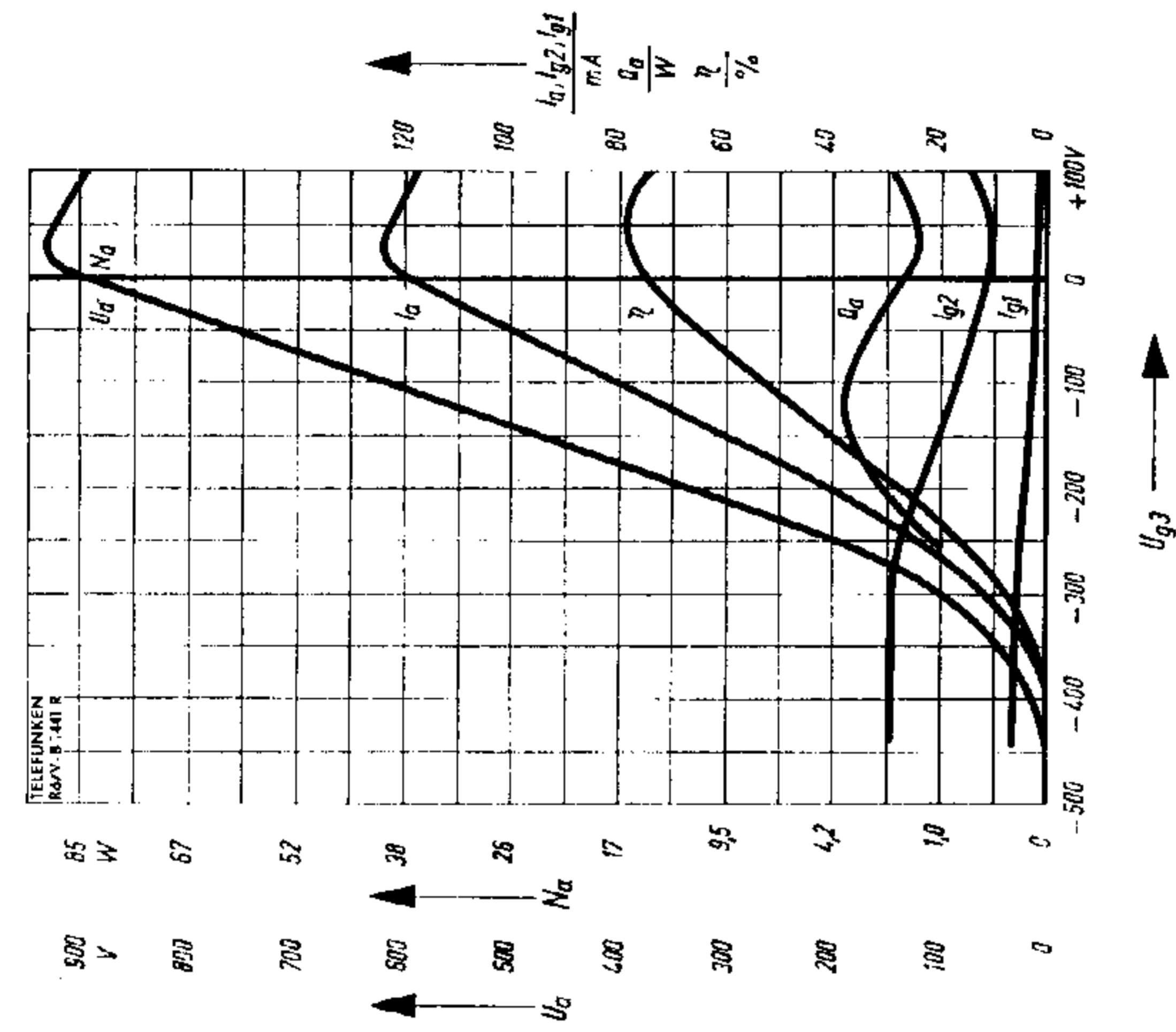
$I_a = f(U_a)$   
 $U_{g1g2} = \text{Parameter}$



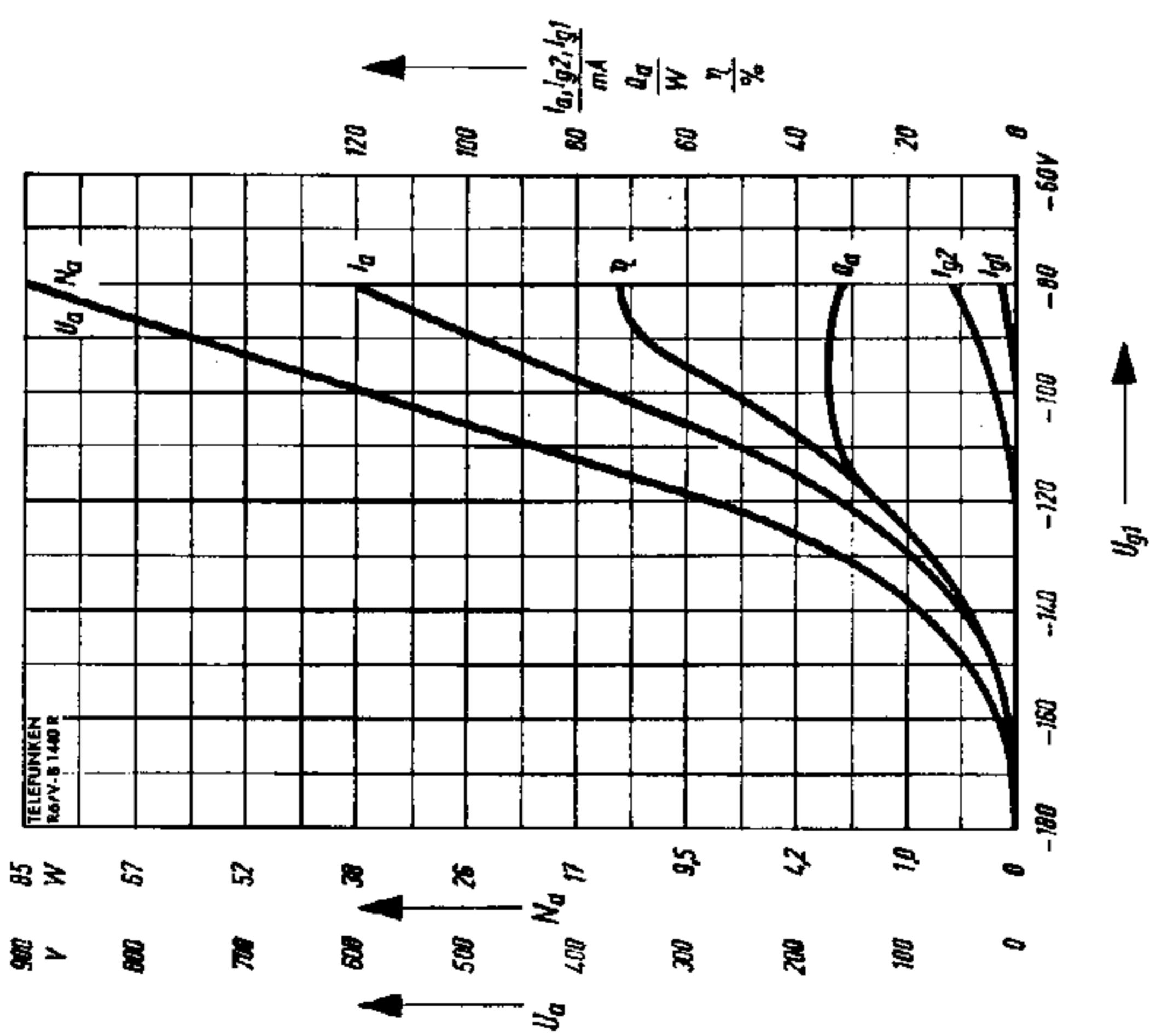
$I_a + I_{g2} = f(U_a, U_{g2})$   
 $U_{g1} = \text{Parameter}$

Als Triode geschaltet · Connected as triode





$U_a, N_a, I_a, I_{g2}, I_{g1}, Q_a, \eta = f(U_{g3})$   
 $U_a = 1000 \text{ V}$   
 $U_{g2} = 360 \text{ V}$   
 $R_a = 4750 \Omega$   
 $R_{g2} = 5000 \Omega$

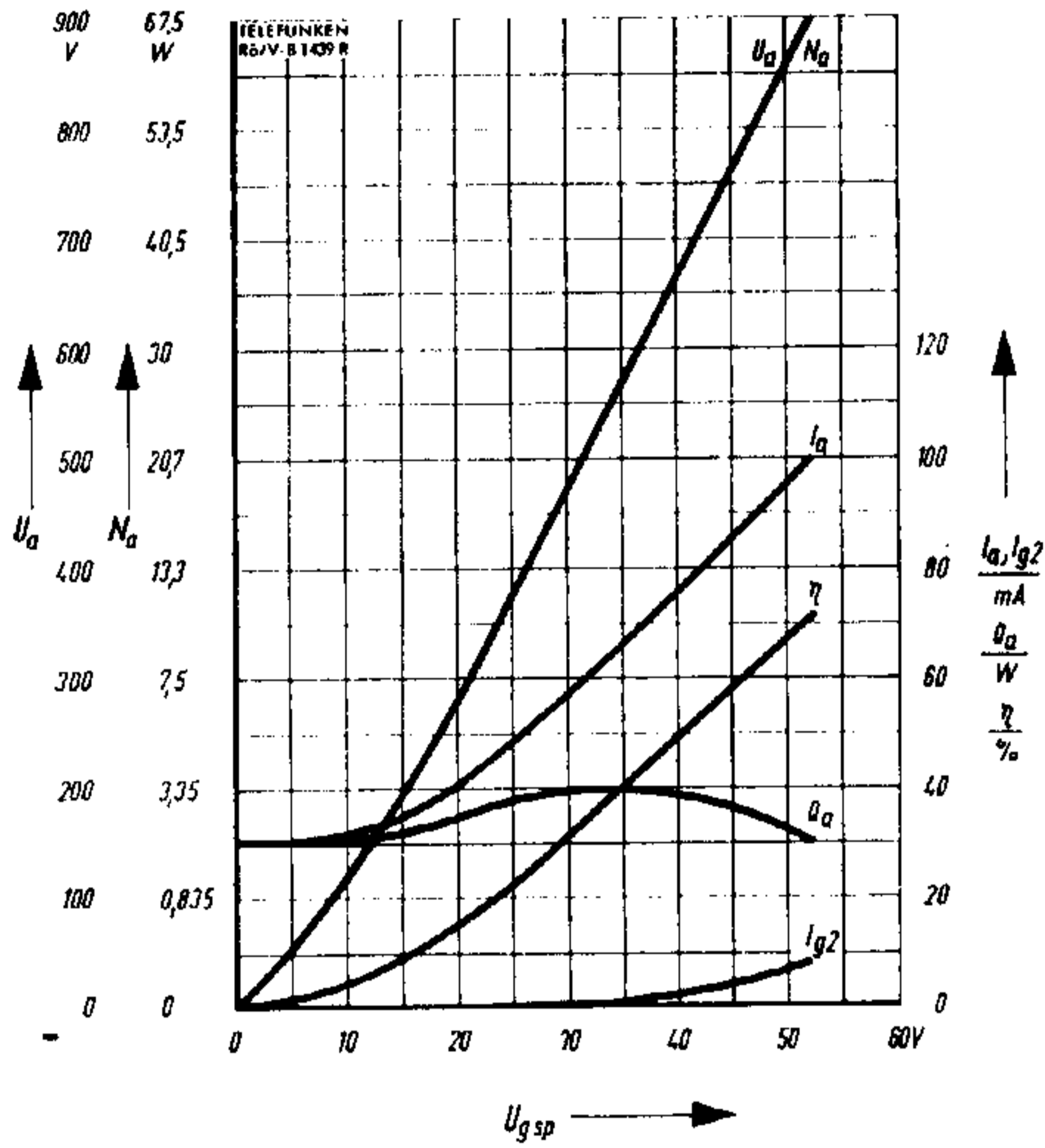


$U_a, N_a, I_a, I_{g2}, I_{g1}, Q_a, \eta = f(U_{g1})$   
 $U_a = 1000 \text{ V}$   
 $U_{g2} = 300 \text{ V}$   
 $R_a = 4750 \Omega$



**EL 152****FL 152**

# TELEFUNKEN



$$U_a, N_a, I_a, I_{g2}, Q_a, \eta = f(U_{gsp})$$

$$U_a = 1000 \text{ V}$$

$$U_{g2} = 300 \text{ V}$$

$$U_{g1} = -60 \text{ V}$$

$$R_a = 6000 \text{ } \Omega$$

