

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

TELEFUNKEN

EL 152

FL 152

85 W-Pentode

EL 152	U_f	6,3	V
	I_f	ca. 1,55	A
FL 152	U_f	12,6	V
	I_f	ca. 0,8	A

Meßwerte · Measuring values

U_a	800	V
U_{g2}	250	V
U_{g3}	0	V
R_k	800	Ω
I_a	50	mA
I_{g2}	1	mA
S	4	mA/V
$I_{g2/g1}$	5	
R_i	60	k Ω

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	$\leq$ 120	MHz
U_a	600	V
U_{g2}	250	V
U_{g1}	— 80	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 Ω

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

f	$\leq$ 45	MHz
U_a	1000	V
U_{g2}	300	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 Ω



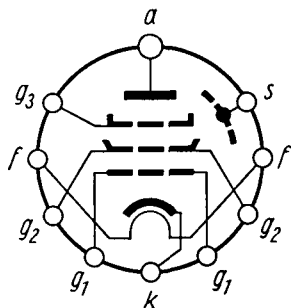
Grenzwerte · Maximum ratings

siehe nebenstehendes Bild

see diagram opposite

für $f = 45 \text{ MHz}$

U_a	1000	V
U_{asp}	3000	V
Q_a	40	W
$-U_{g3}$	400	V
Q_{g3}	1	W
R_{g3}	25	k Ω
U_{g2o}	800	V
U_{g2}	300	V
Q_{g2}	5	W
$-U_{g1}$	300	V
Q_{g1}	1	W
R_{g1}	25	k Ω
I_k	230	mA
$U_{ff/k}$	200	V
$R_{ff/k}$	5	k Ω
t_{Kolben}	300	$^{\circ}\text{C}$
f_{max}	120	MHz

Sockelschaltbild
Base connection

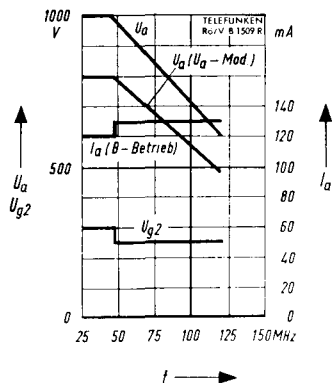
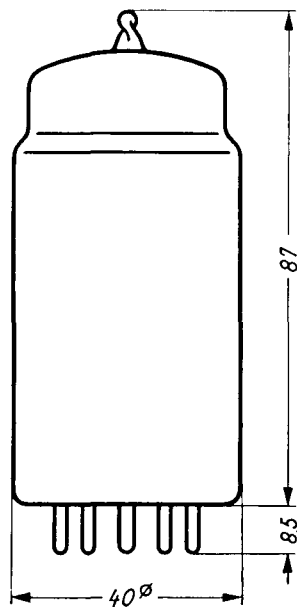
Zubehör · Accessories

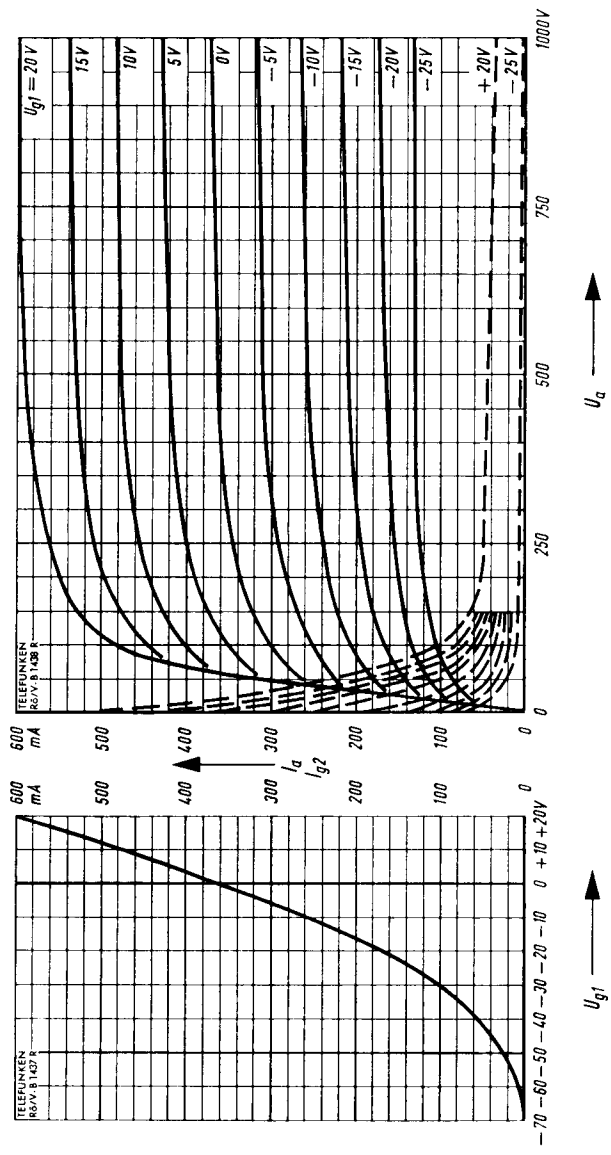
Fassung Lg.-Nr. 30216

Socket stock no. 30216

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.

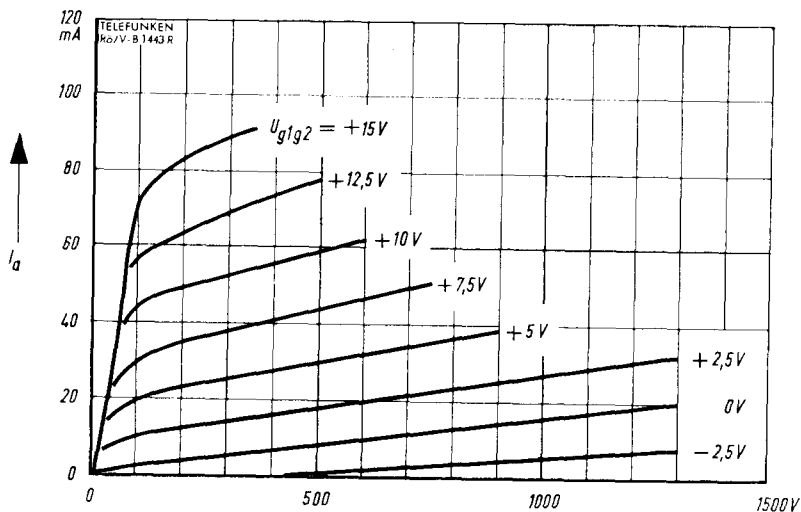
max. Abmessungen
max. dimensionsGewicht · Weight
max. 45 g



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

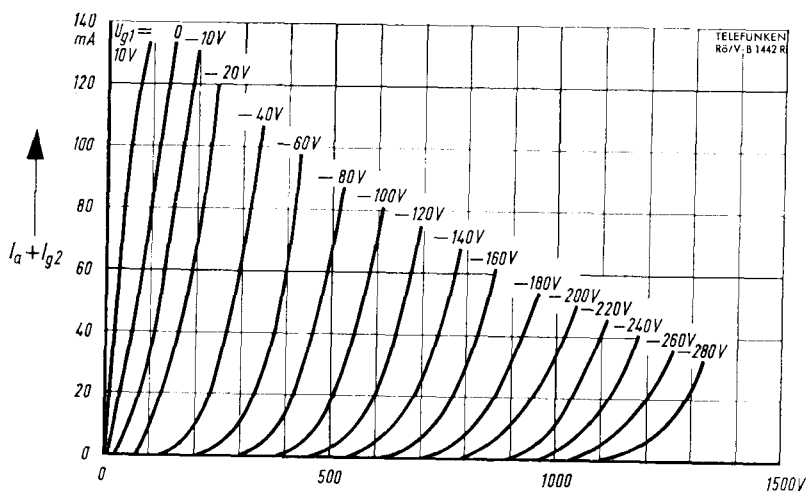
$I_a, I_{g2} = f(U_a)$
 $U_{g3} = 0 \text{ V}$
 $U_{g2} = 250 \text{ V}$
 $U_{g1} = \text{Parameter}$





$$I_a = f(U_a)$$

$U_{g1g2} = \text{Parameter}$

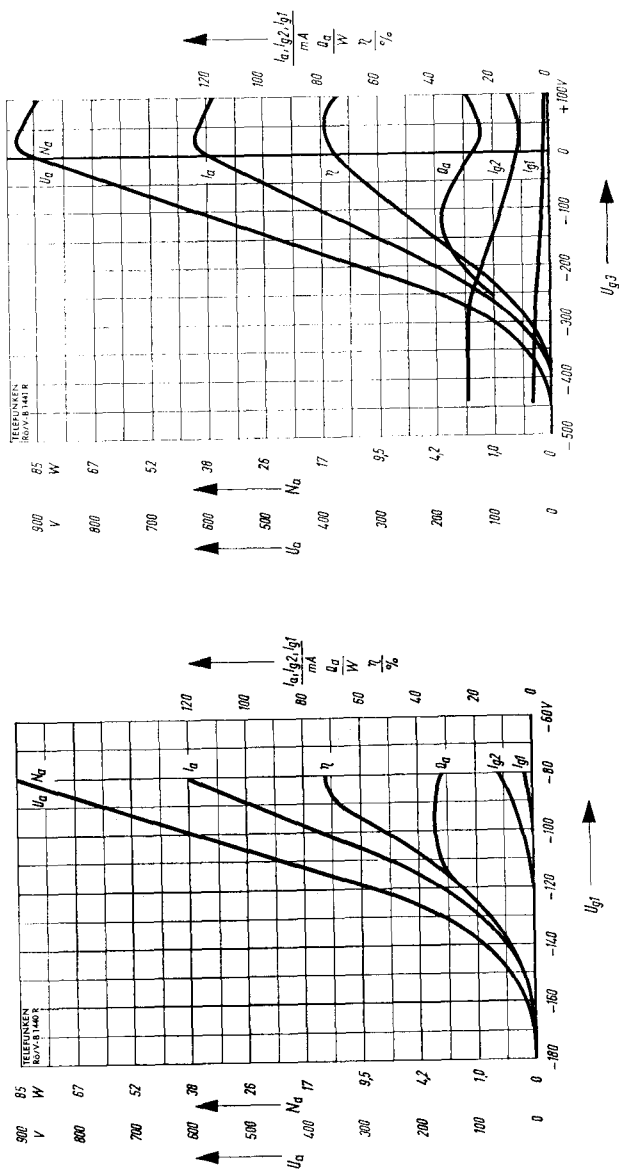


$$I_a + I_{g2} = f(U_a, U_{g2})$$

$U_{g1} = \text{Parameter}$

Als Triode geschaltet · Connected as triode

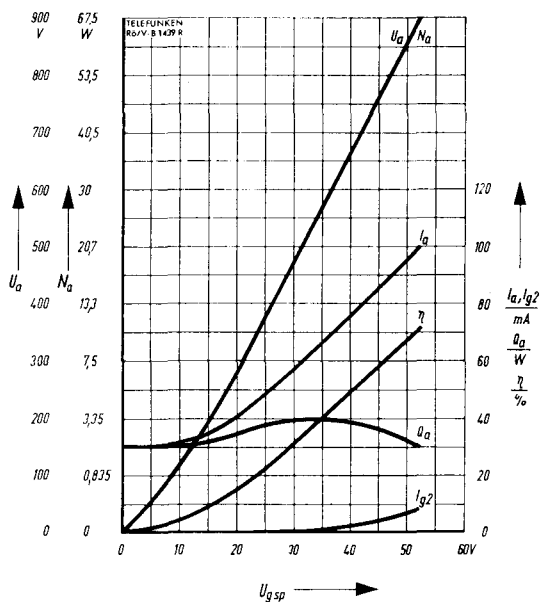




$U_a, N_a, I_a, I_{g2}, I_{g1}, Q_a, \eta = f(U_{g3})$
 $U_a = 1000 \text{ V}$
 $U_{g2} = 360 \text{ V}$
 $R_a = 4750 \Omega$
 $R_{g2} = 5000 \Omega$

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





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

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

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

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

$$R_a = 6000 \Omega$$

