

4683 Triode

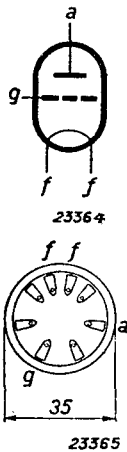


Fig. 2
Arrangement of
electrodes and
base connections.

The 4683 is a directly-heated power triode having an anode dissipation of 15 W.

FILAMENT RATINGS

Heating: direct, A.C., parallel supply.
Filament voltage $V_f = 4\text{ V}$
Filament current $I_f = 0.95\text{ A}$

CAPACITANCES

Anode-grid $C_{ag} < 20\text{ }\mu\text{F}$

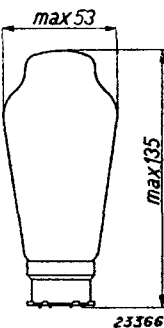


Fig. 1
Dimensions in mm.

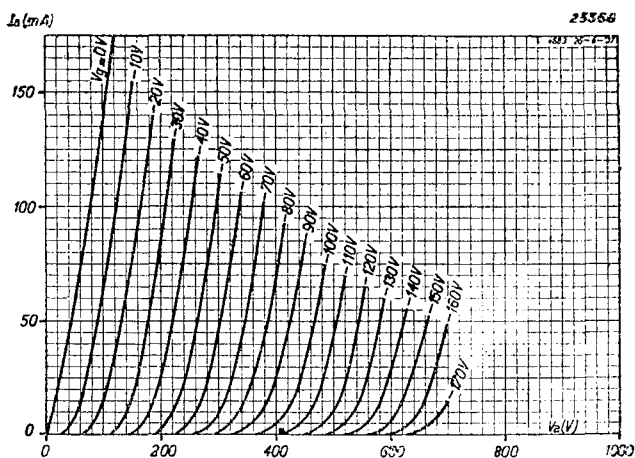
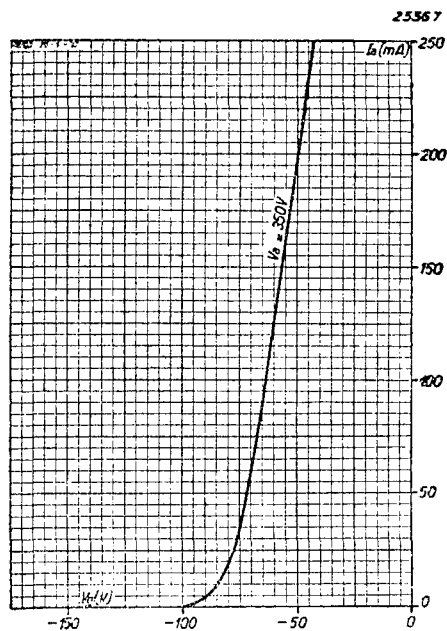
OPERATING DATA

		Class AB output with auto. grid bias. (2 valves)	Class B output with fixed grid bias. (2 valves)
Anode voltage.	$V_a =$	350 V	350 V
Common cathode resistor for auto- matic bias	$R_k =$	850 ohms	—
Fixed grid bias	$V_g =$	—	—75 V
Anode current (without signal) . .	$I_{ao} =$	$2 \times 43\text{ mA}$	$2 \times 35\text{ mA}$
Anode current at max. modulation	$I_{a\text{ max}} =$	$2 \times 46\text{ mA}$	$2 \times 70\text{ mA}$
Load resistor (between anodes) . .	$R_{aa} =$	8,000 ohms	5,000 ohms
Output power	$W_o =$	15.6 W	20 W
Alternating grid voltage (per grid) at max. modulation	$V_i =$	51 V_{eff}	49 V_{eff}
Distortion at max. modulation . .	$d_{tot} =$	2.3 %	2.1 %

MAXIMUM RATINGS per valve

V_{ao} = max. 600 V
 V_a = max. 350 V
 W_a = max. 15 W
 V_g ($I_g = + 0.3\text{ }\mu\text{A}$) = max. —2 V

I_k = max. 90 mA
 R_{gk} (auto. bias) = max. 0.7 M ohm
 R_{gk} (fixed bias) = max. 0.3 M ohm



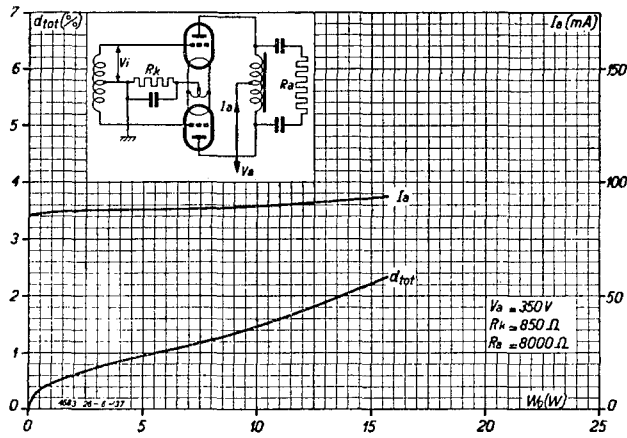


Fig. 5
Total distortion and total anode current as functions of the output power; 2 valves 4683 in a balanced circuit with automatic grid bias.

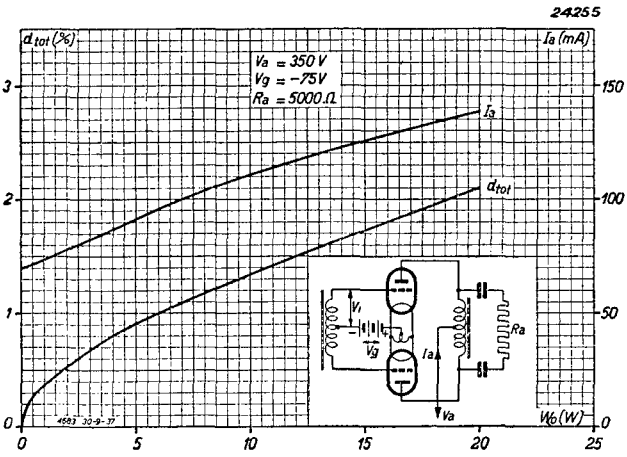


Fig. 6
Total distortion and total anode current as functions of the output power; 2 valves 4683 in a balanced circuit with fixed bias.