

ELECTROMETER TUBE

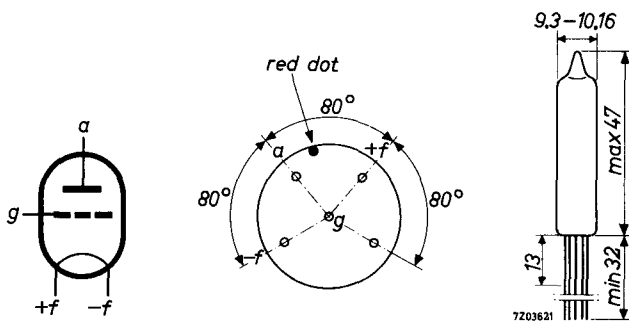
Subminiature electrometer triode

QUICK REFERENCE DATA			
Filament voltage	V_f	1.25	V
Anode voltage	V_a	9	V
Anode current	I_a	100	μA
Grid current	$-I_g$	$< 12.5 \times 10^{-14}$	

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Subminiature



Directly soldered connections to the leads of this tube must be at least 13 mm from the seals and any bending of the leads must be at least 1.5 mm from the seals

HEATING: Direct by D.C.

Filament voltage	V_f	1.25 V
Filament current	I_f	13 mA

CHARACTERISTICS AND RANGE VALUES

Anode voltage	V_a	9	V
Grid voltage	V_g	-2.5	-2 to -3.75 V
Anode current	I_a	100	μA
Transconductance	S	80	70 to 90 $\mu A/V$
Amplification factor	μ	2.0	1.7 to 2.7
Grid current	$-I_g$	8.5×10^{-14}	$< 12.5 \times 10^{-14} A$ ¹⁾
Crossover point ²⁾	V_g	-1.3	$< -1.6 V$
Anode current at crossover point	I_a	-	$> 160 \mu A$

LIMITING VALUES (Absolute max. rating system)

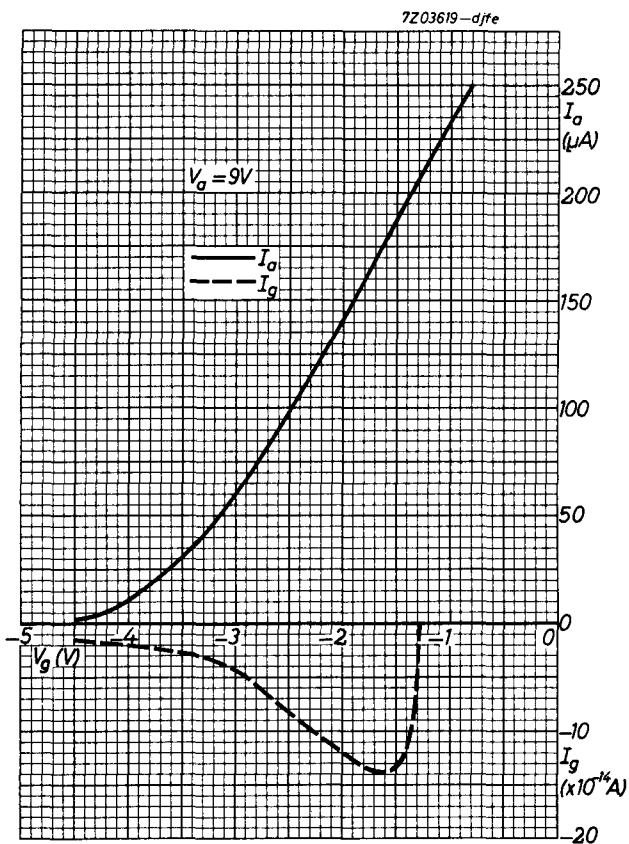
Anode voltage	V_a	max.	25 V
Anode current	I_a	max.	250 μA
Filament voltage	V_f	max.	1.5 V
		min.	1.1 V

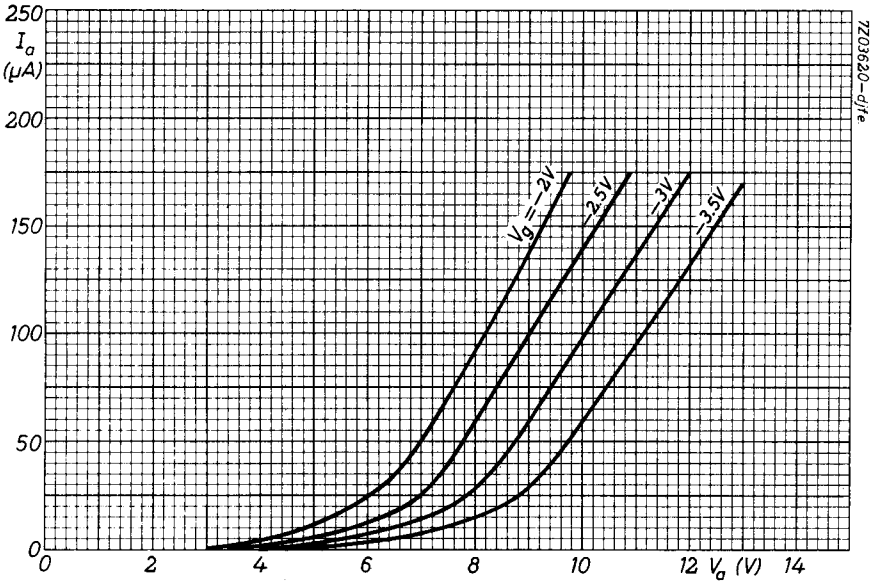
REMARKS

1. In order to avoid excessive drift of the characteristics the filament voltage must be applied before the anode voltage.
2. To avoid contamination of the glass, the tube should not be removed from its protective envelope until it is mounted into the equipment.

¹⁾ Valid only in darkness

²⁾ The "crossover point" is the point at which the direction of the grid current is reversed





PHILIPS

Data handbook



**Electronic
components
and materials**

4065

page	sheet	date
1	1	1968.12
2	2	1968.12
3	3	1968.12
4	4	1968.12
5	FP	2001.05.19