

TENTATIVE DATA

Triode heptode intended for use as a noise cancelled synchronising pulse separator and clipper.

HEATER

Suitable for series or parallel operation, a.c. or d.c.

I_h	300	mA
V_h	8.5	V ←

CAPACITANCES

c_{ah-at}	<150	mpF
c_{g1-at}	<10	mpF
c_{g1-gt}	<5.0	mpF ←
c_{g3-gt}	<20	mpF

Heptode section

c_{in}	4.4	pF
c_{out}	5.4	pF ←
c_{a-g1}	<100	mpF
c_{a-g3}	<250	mpF
c_{g1-g3}	300	mpF

Triode section

c_{in}	3.3	pF ←
c_{out}	1.7	pF ←
c_{a-g}	1.8	pF

CHARACTERISTICS

Heptode section

V_a	14	V
V_{g2+g4}	14	V
I_a	1.5	mA ←
I_{g2+g4}	1.3	mA ←
I_{g3}	1.0	μA
V_{g3}	0	V
V_{g1}	0	V
$V_{g3} \text{ max. } (I_{g3} = 0.3 \mu A)$	<-1.3	V
$V_{g1} \text{ max. } (I_{g1} = 0.3 \mu A)$	<-1.3	V

Triode section

V_a	100	V
I_a	9.0	mA ←
V_g	-1.0	V
g_m	8.8	mA/V ←
μ	50	←

OPERATING CONDITIONS

Heptode section

V_{ah}	1.0	14	V
V_{g2+g4}	14	14	V
I_{ah}	>300	750	μA
I_{g3}	1.0	1.0	μA
I_{g1}	100	100	μA

RATINGS (DESIGN CENTRE SYSTEM)

Heptode section

$V_{a(b)}$ max.	550	V
V_a max.	100	V ←
p_a max.	500	mW ←
$V_{g2+g4(b)}$ max.	550	V
V_{g2+g4} max. (see note 1)	50	V
p_{g2+g4} max.	500	mW
$-v_g$ (pk) max.	100	V ←
$-v_{g3}$ (pk) max.	150	V
I_k max.	8.0	mA ←
R_{g1-k} max.	3.0	MΩ
R_{g3-k} max.	3.0	MΩ
V_{h-k} max.	100	V

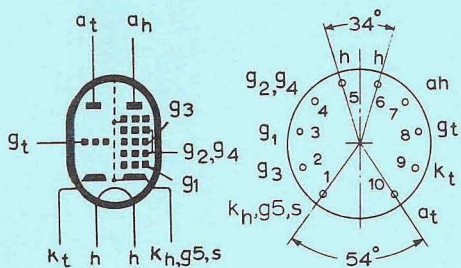
Triode section

$V_{a(b)}$ max.	550	V
V_a max.	250	V
p_a max.	1.5	W
$-v_{g1}$ (pk) max.	200	V
I_k max.	20	mA
R_{g-k} max.	2.0	MΩ
V_{h-k} max. (cathode positive)	70V d.c. + 100V r.m.s. ←	

NOTES

1. The minimum V_{g2+g4} is 6V under design maximum conditions.

B4461

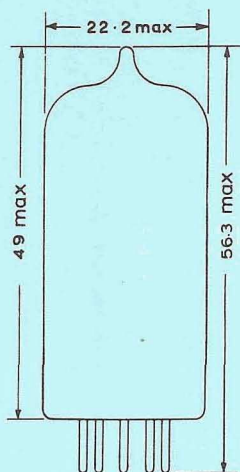


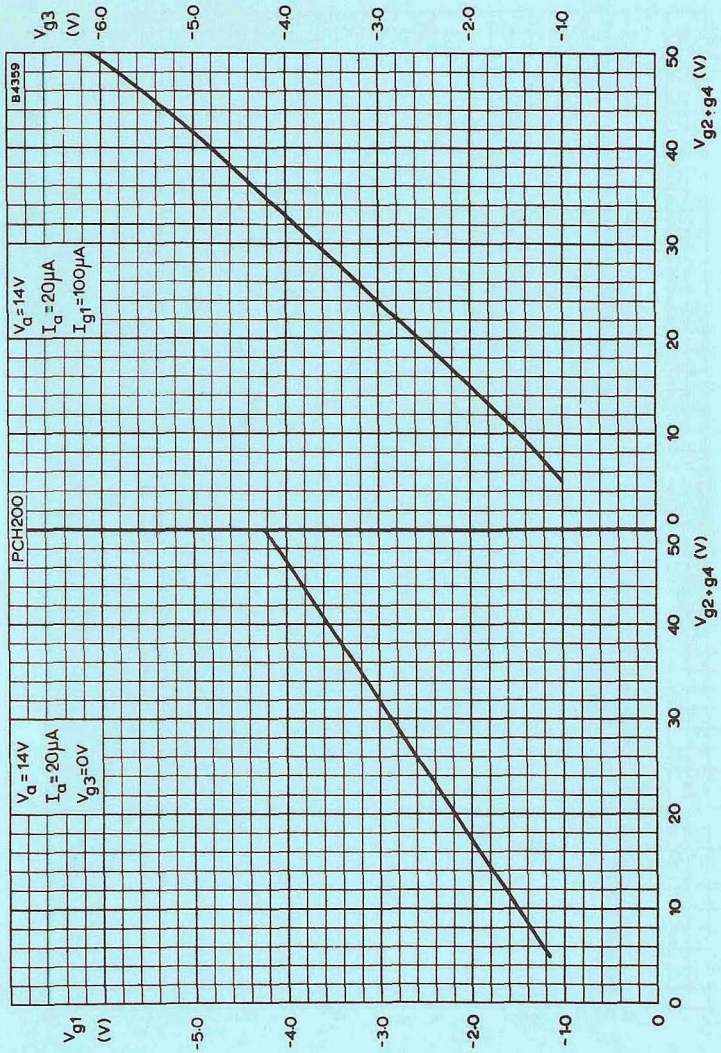
Pin circle diameter = 11.9mm

Pin diameter = 1.0mm

B10B base

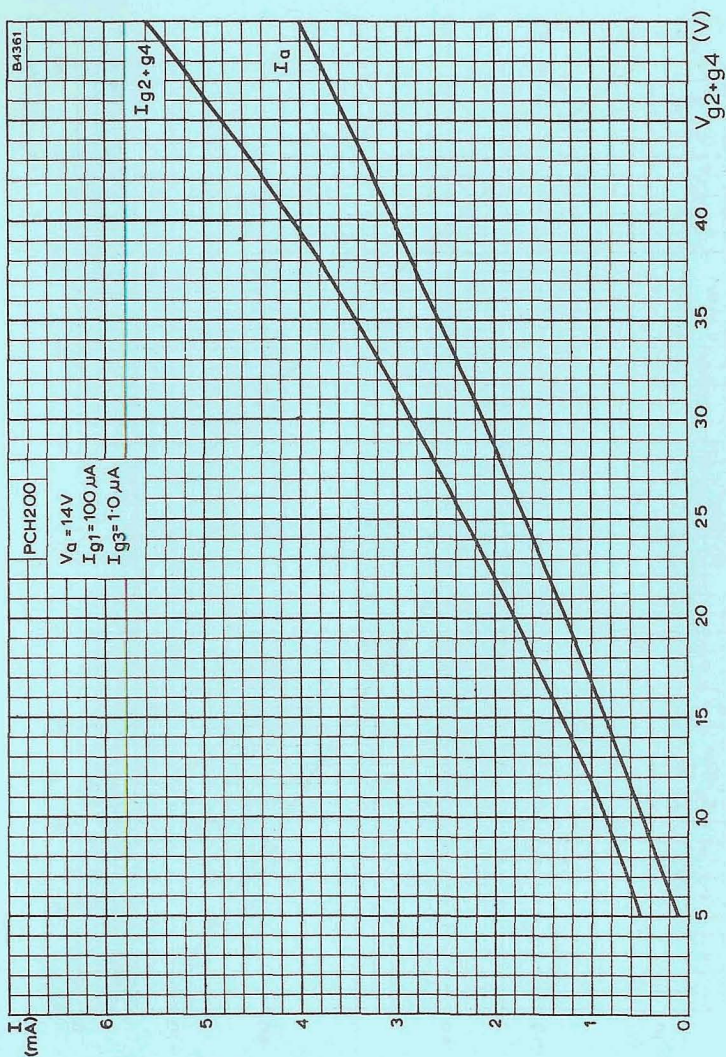
All dimensions in mm



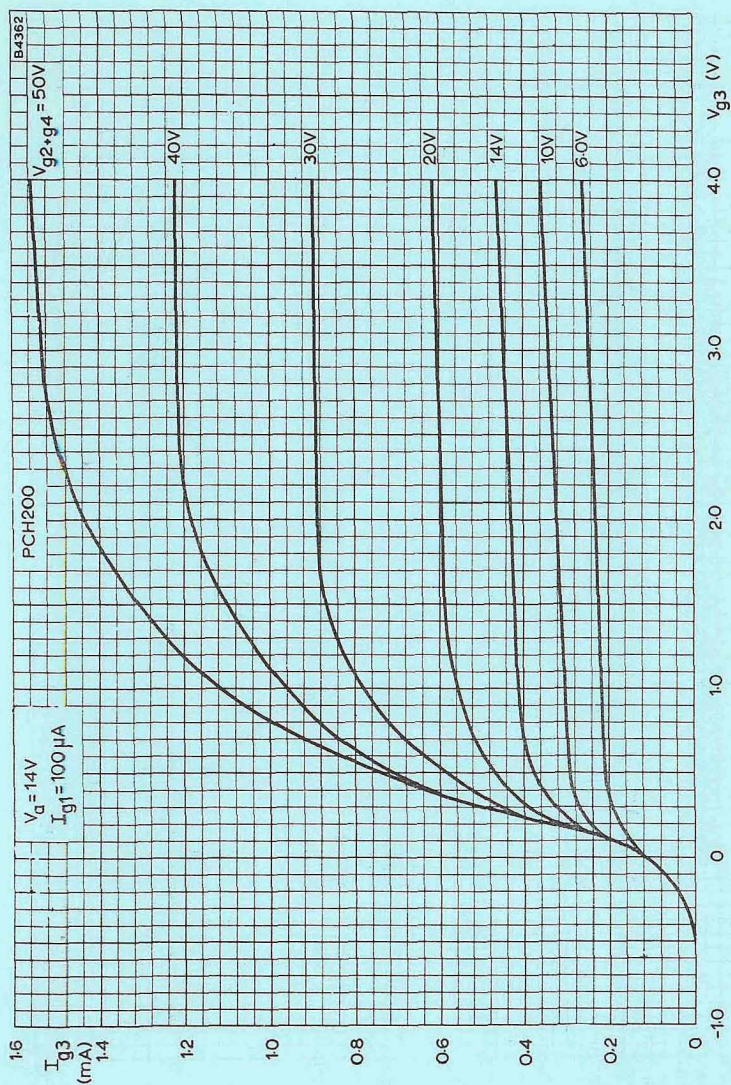


FIRST-GRID AND THIRD-GRID VOLTAGES PLOTTED
AGAINST SCREEN-GRID VOLTAGE
HEPTODE SECTION

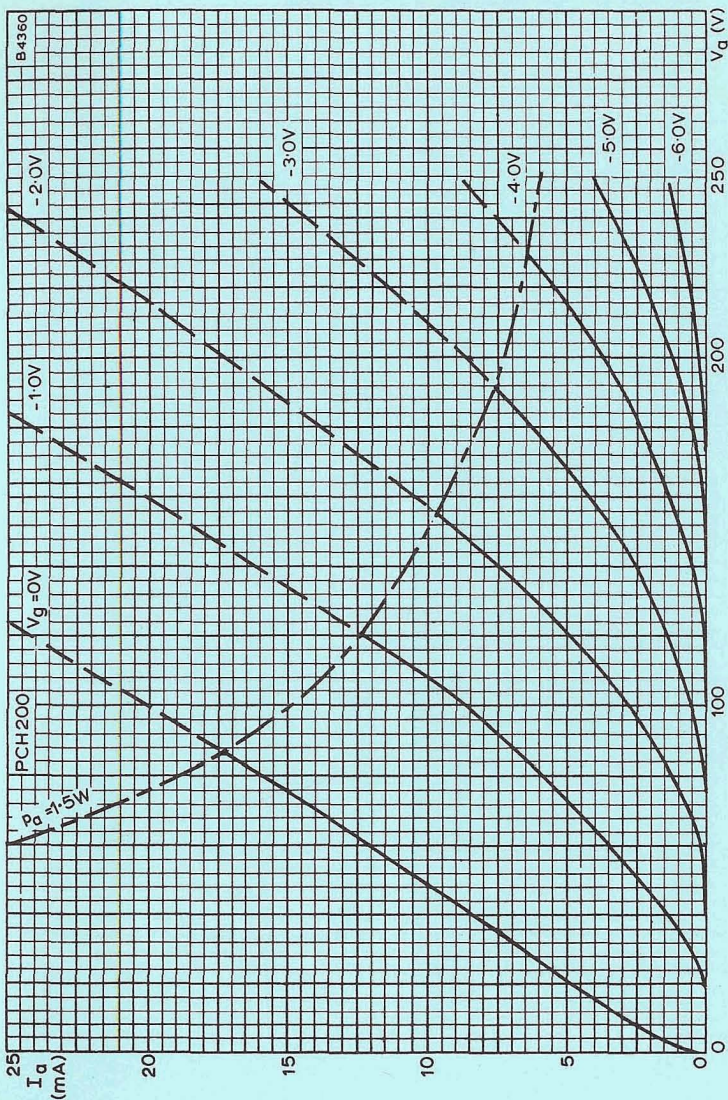




ANODE AND SCREEN-GRID CURRENTS PLOTTED
 AGAINST SCREEN-GRID VOLTAGE
 HEPTODE SECTION



THIRD-GRID CURRENT PLOTTED AGAINST THIRD-GRID VOLTAGE
WITH SCREEN-GRID VOLTAGE AS PARAMETER
HEPTODE SECTION



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
TRIODE SECTION