

TRIODE HEPTODE

Triode heptode intended for use as a noise cancelled synchronising pulse separator and time base oscillator.

ECH84

HEATER

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

V_h	6.3	V
I_h	300	mA

CAPACITANCES

C_{ah-at}	< 250	mpF
C_{ah-gt}	< 90	mpF
C_{g1-at}	< 80	mpF
C_{g1-gt}	< 100	mpF
C_{g3-at}	< 130	mpF
Heptode section		
C_{a-g1}	< 9.0	mpF
Triode section		
C_{in}	3.0	pF
C_{a-g}	1.1	pF

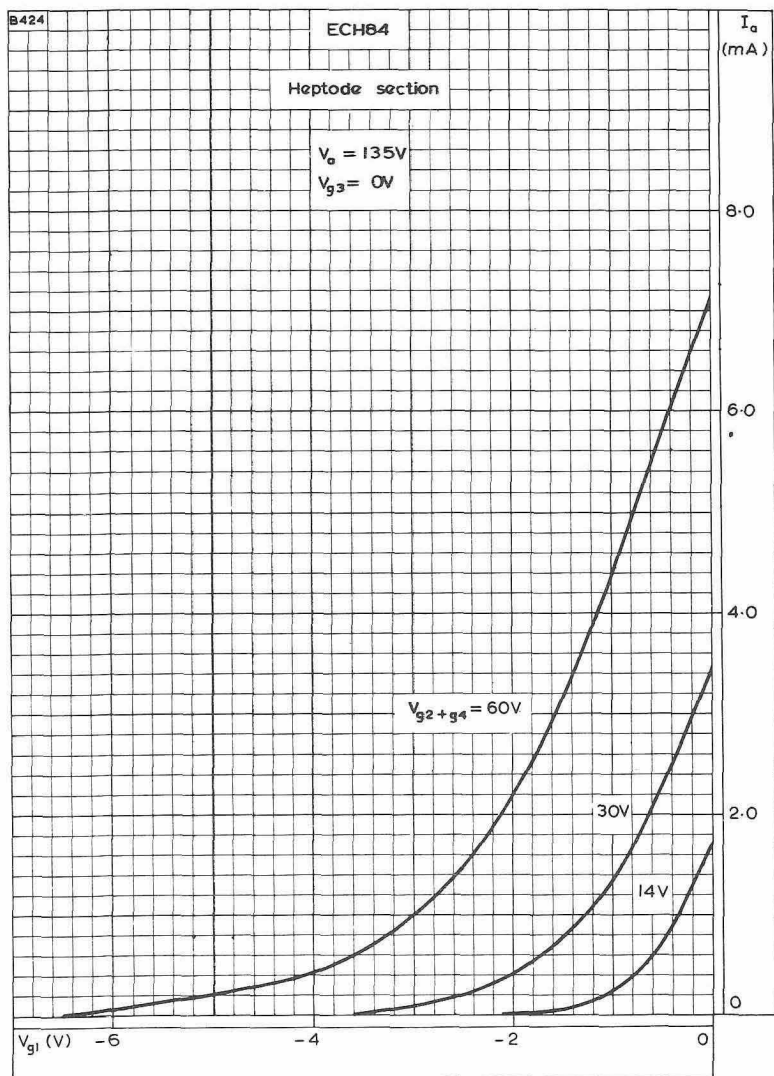
CHARACTERISTICS

Heptode section

V_a	135	V
V_{g3}	0	V
V_{g2+g4}	14	V
V_{g1}	0	V
I_a	1.7	mA
I_{g2+g4}	900	μA
g_m	2.2	mA/V
$V_{g3} (I_a = 20\mu A)$	-2.0	V
$V_{g1} (I_a = 20\mu A)$	-1.9	V
$-V_{g3} \text{ max. } (I_{g1} = +0.3\mu A)$	1.3	V
$-V_{g1} \text{ max. } (I_{g3} = +0.3\mu A)$	1.3	V

Triode section

V_a	50	V
V_g	0	V
I_a	3.0	mA
g_m	3.7	mA/V
μ	50	
$I_a (V_a = 200V, V_g = -11V)$	< 100	μA
$-V_g \text{ max. } (I_g = +0.3\mu A)$	1.3	V



ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH
SCREEN-GRID VOLTAGE AS PARAMETER

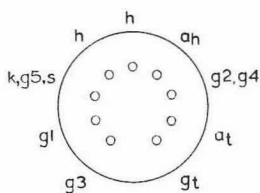
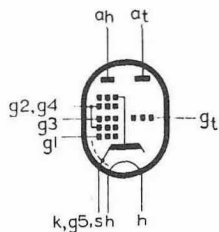
DESIGN CENTRE RATINGS

Heptode section

$V_{a(b)}$ max.	550	V
V_a max.	250	V
p_a max.	1.7	W
$V_{g2+g4(b)}$ max.	550	V
V_{g2+g4} max.	250	V
V_{g2+g4} min.	10	V
p_{g2+g4} max.	800	mW
$-V_{g1(pk)}$ max.	150	V
$-V_{g3(pk)}$ max.	150	V
I_k max.	12.5	mA
R_{g1-k} max.	3.0	$M\Omega$
R_{g3-k} max.	3.0	$M\Omega$
V_{h-k} max.	100	V

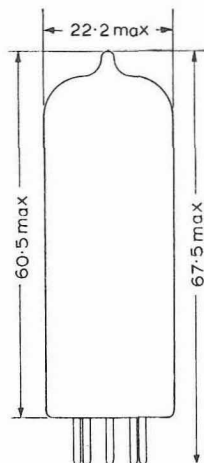
Triode section

$V_{a(b)}$ max.	550	V
V_a max.	250	V
p_a max.	1.3	W
$-V_{g(pk)}$ max.	200	V
I_k max.	10	mA
R_{g-k} max.	3.0	$M\Omega$

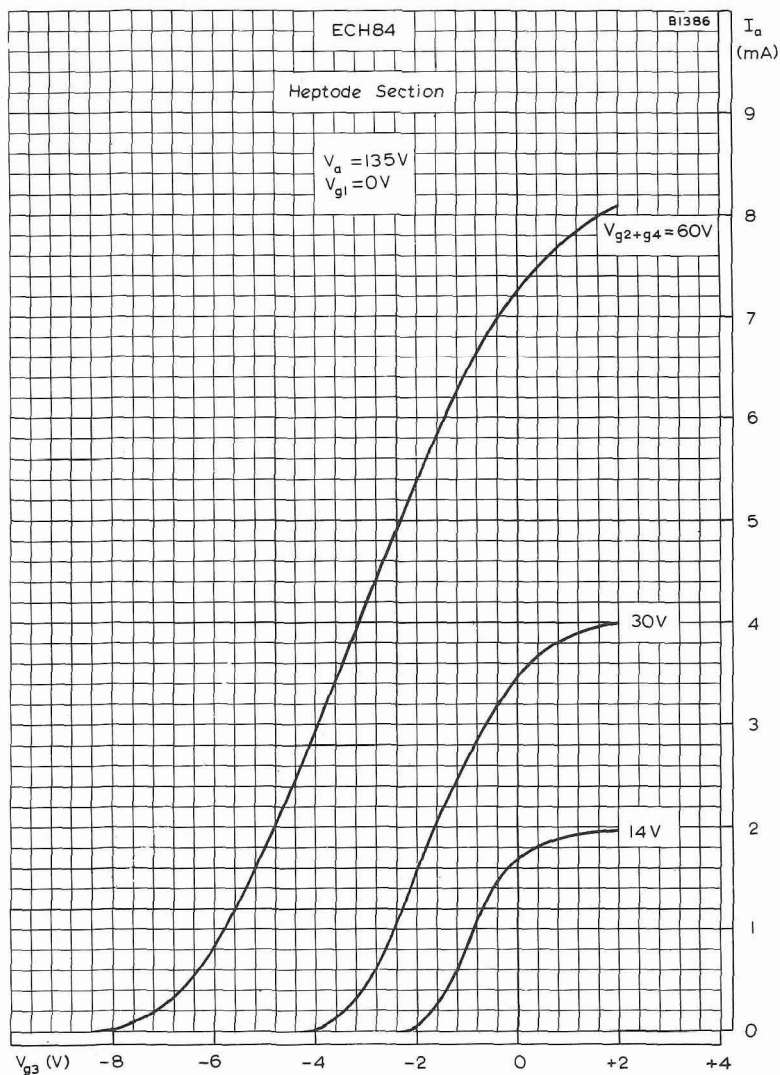


B9A Base

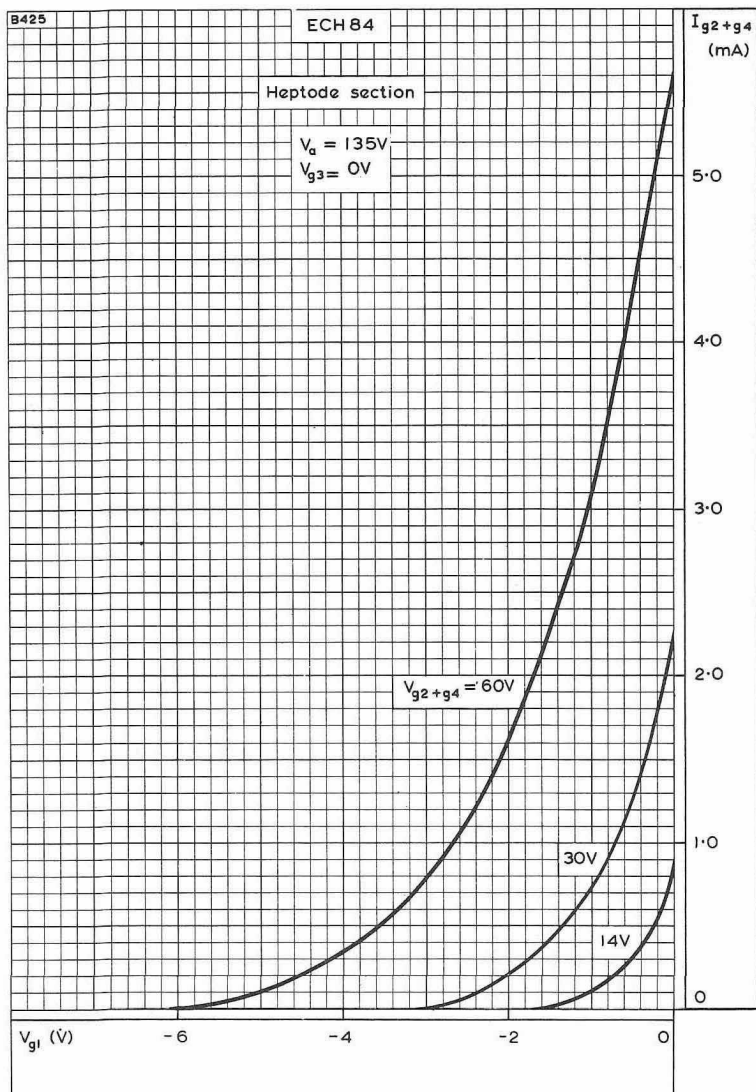
All dimensions in mm



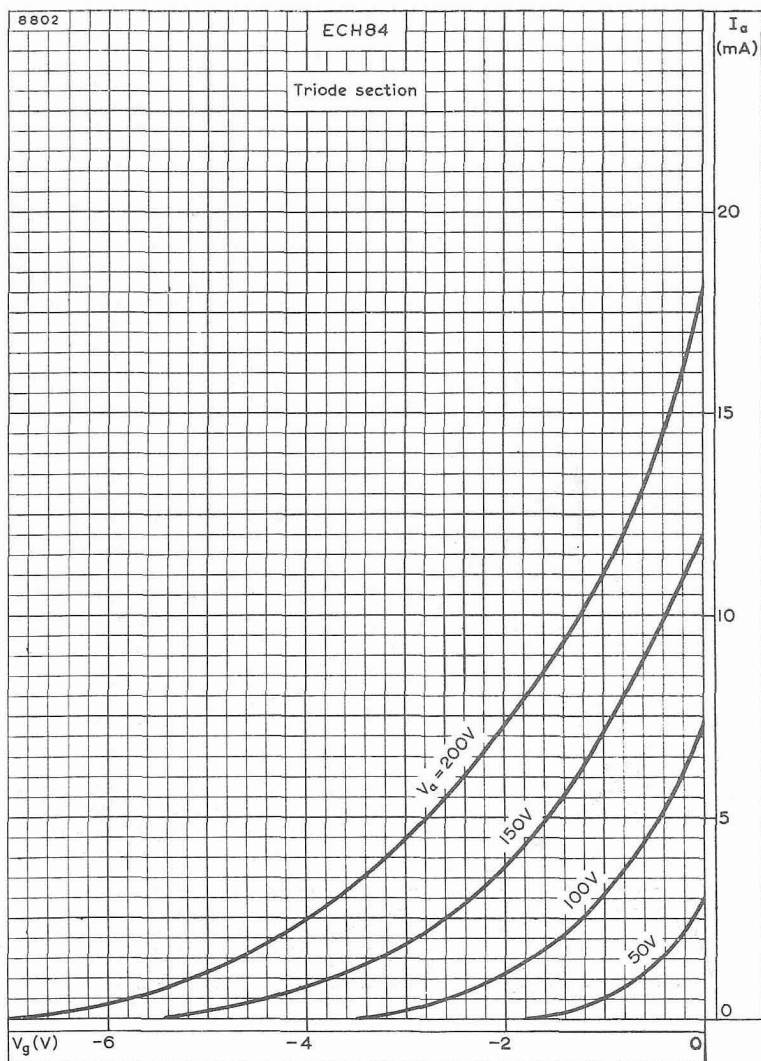
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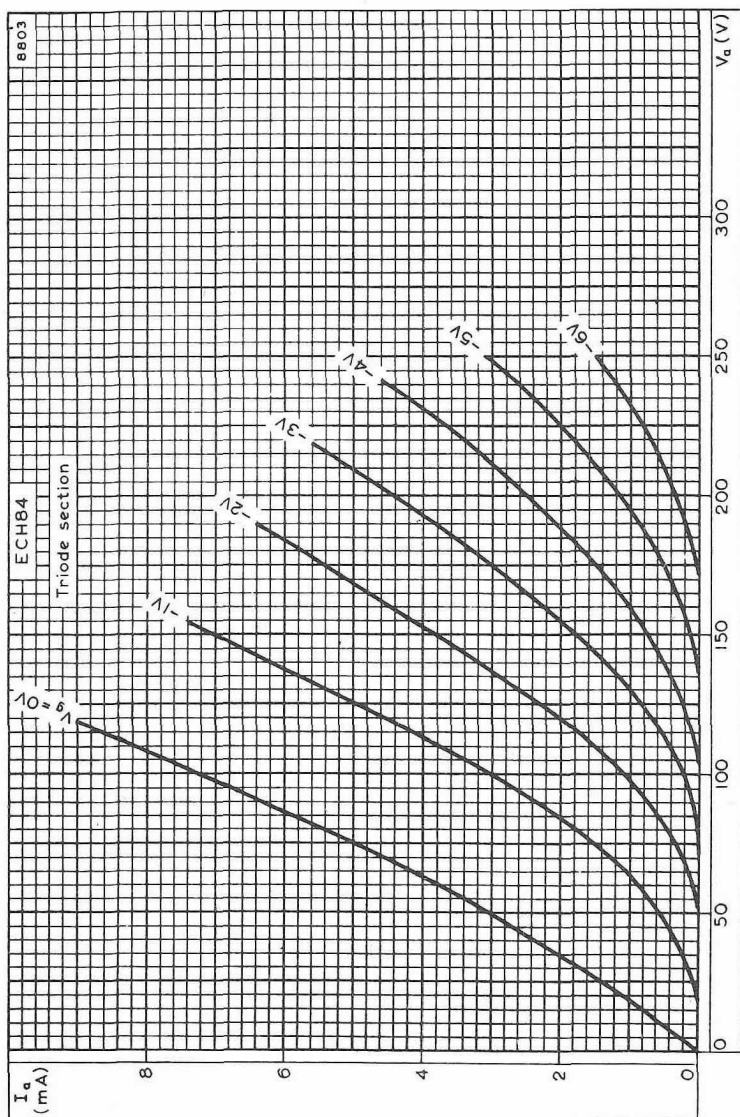
ANODE CURRENT PLOTTED AGAINST CONTROL-GRID (g_3) VOLTAGE.
HEPTODE SECTION



SCREEN-GRID CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE
WITH SCREEN-GRID VOLTAGE AS PARAMETER



ANODE CURRENT PLOTTED AGAINST GRID VOLTAGE WITH ANODE VOLTAGE AS PARAMETER. TRIODE SECTION



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH GRID VOLTAGE AS PARAMETER. TRIODE SECTION