

DUAL-CONTROL HEPTODE

EH90

Dual-control heptode for use in television receivers.

HEATER

V_h	6.3	V
I_h	300	mA

CAPACITANCES

C_{a-g1}	<70	mpF
C_{a-g3}	<360	mpF
$C_{in(g1)}$	5.5	pF
$C_{in(g3)}$	7.0	pF
C_{out}	7.5	pF
C_{g1-g3}	<220	mpF

CHARACTERISTICS

V_a	10	100	100	V
V_{g2+g4}	30	30	30	V
V_{g1}	0	0	-1.0	V
V_{g3}	0	-1.0	0	V
I_a	2.0	0.8	0.75	mA
I_{g2+g4}	3.5	4.0	1.1	mA
$g_m(g1-a)$	—	—	1.2	mA/V
$g_m(g3-a)$	—	1.55	—	mA/V
r_a	—	400	900	k Ω
$V_{g1} (I_a = 50\mu A)$	—	—	-2.5	V
$V_{g3} (I_a = 50\mu A)$	—	-2.2	—	V

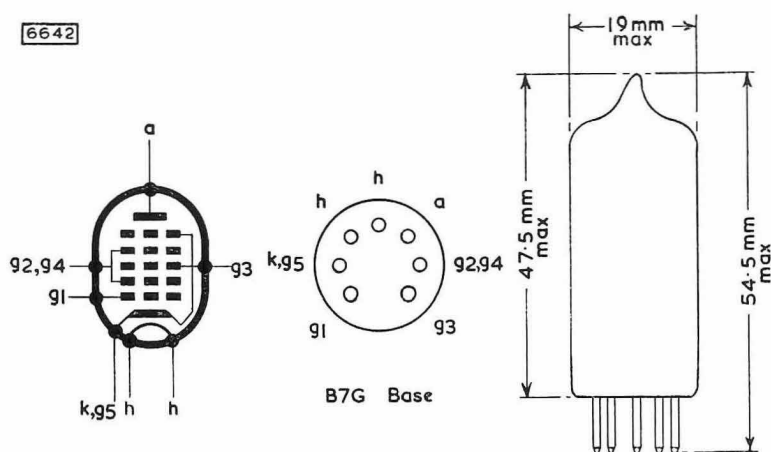
DESIGN CENTRE RATINGS

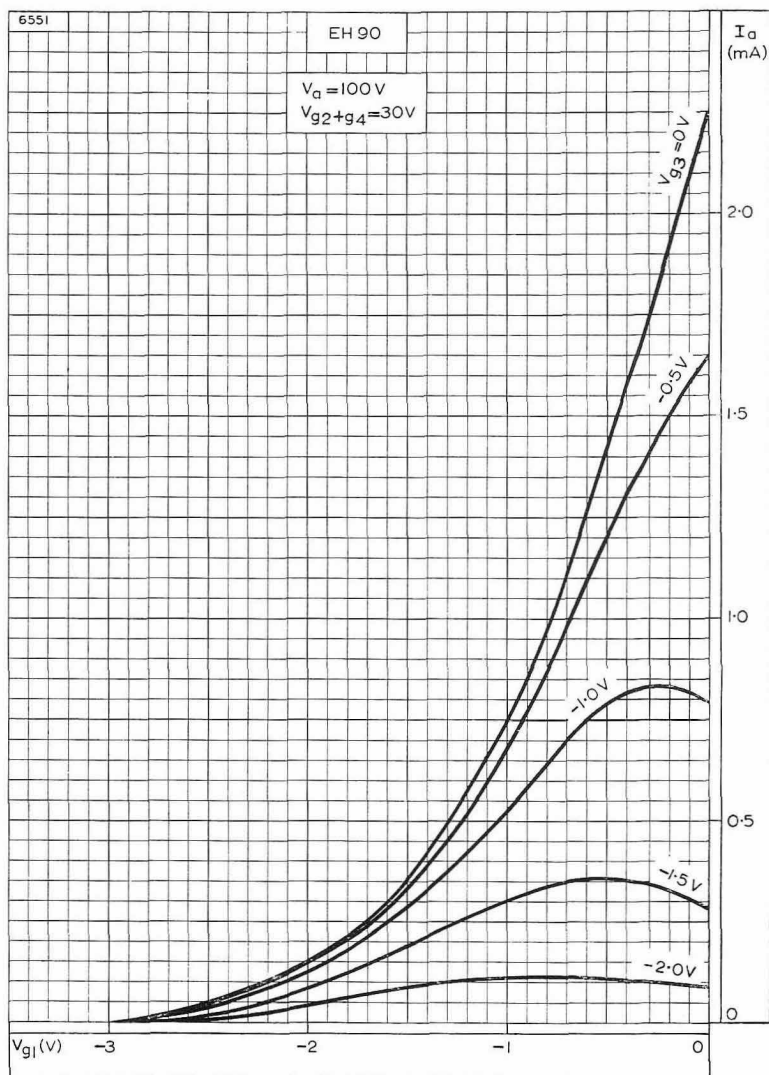
$V_{a(b)} \text{ max.}$	550	V
$V_a \text{ max.}$	300	V
$p_a \text{ max.}$	1.0	W
$V_{g2+g4(b)} \text{ max.}$	300	V
$V_{g2+g4} \text{ max.}$	100	V
$p_{g2+g4} \text{ max.}$	1.0	W
$I_k \text{ max.}$	14	mA
$R_{g1-k} \text{ max.}$	470	k Ω
$R_{g3-k} \text{ max.}$	2.2	M Ω
$R_{g3-k} \text{ max.} (V_{g2+g4} \leq 30V)$	5.0	M Ω
$V_{h-k} \text{ max. (cathode positive)}$	200	V
$V_{h-k} \text{ max. (cathode negative)}$	100	V

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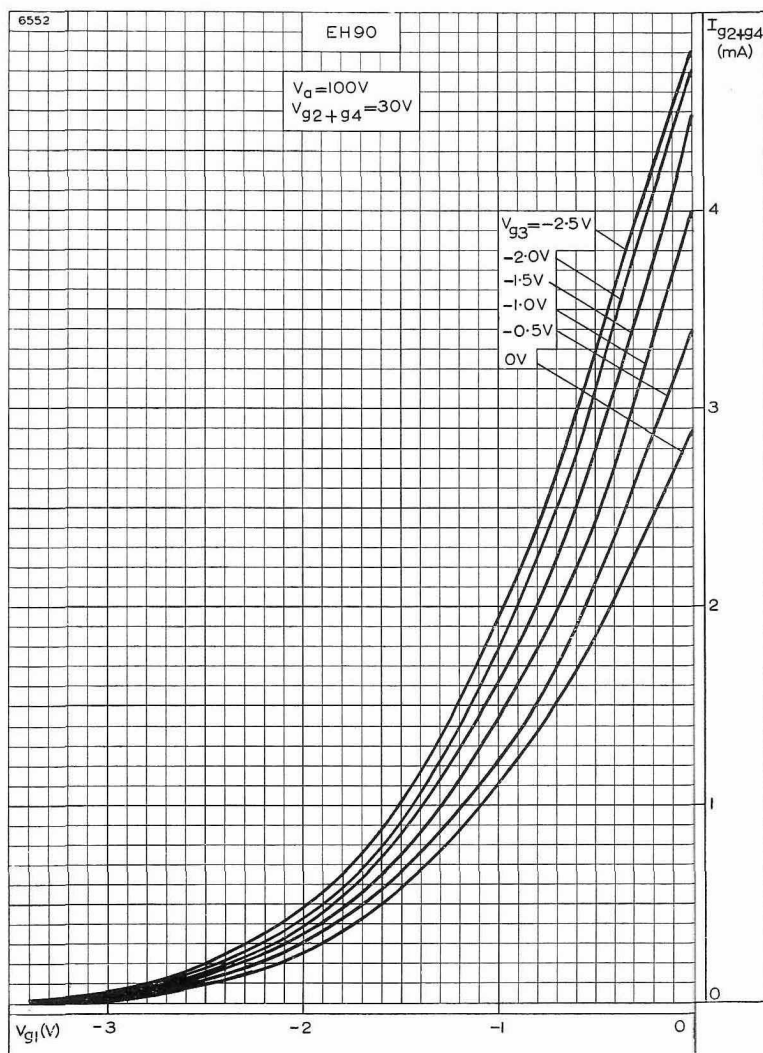
DUAL-CONTROL HEPTODE

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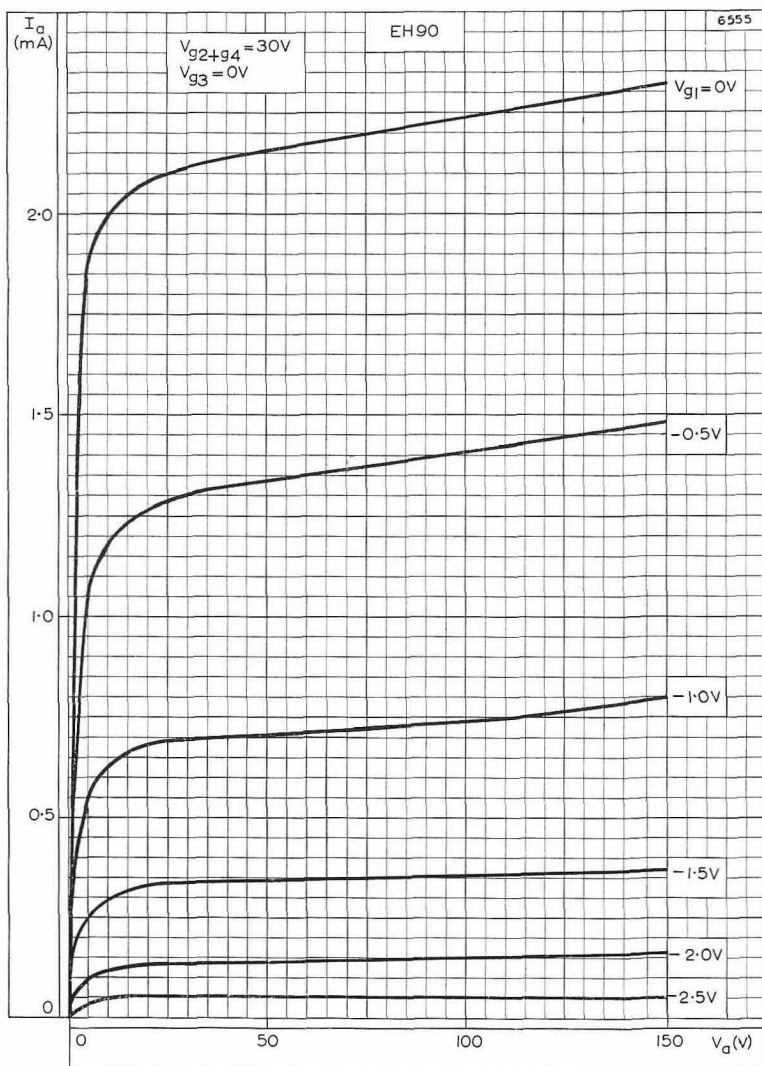




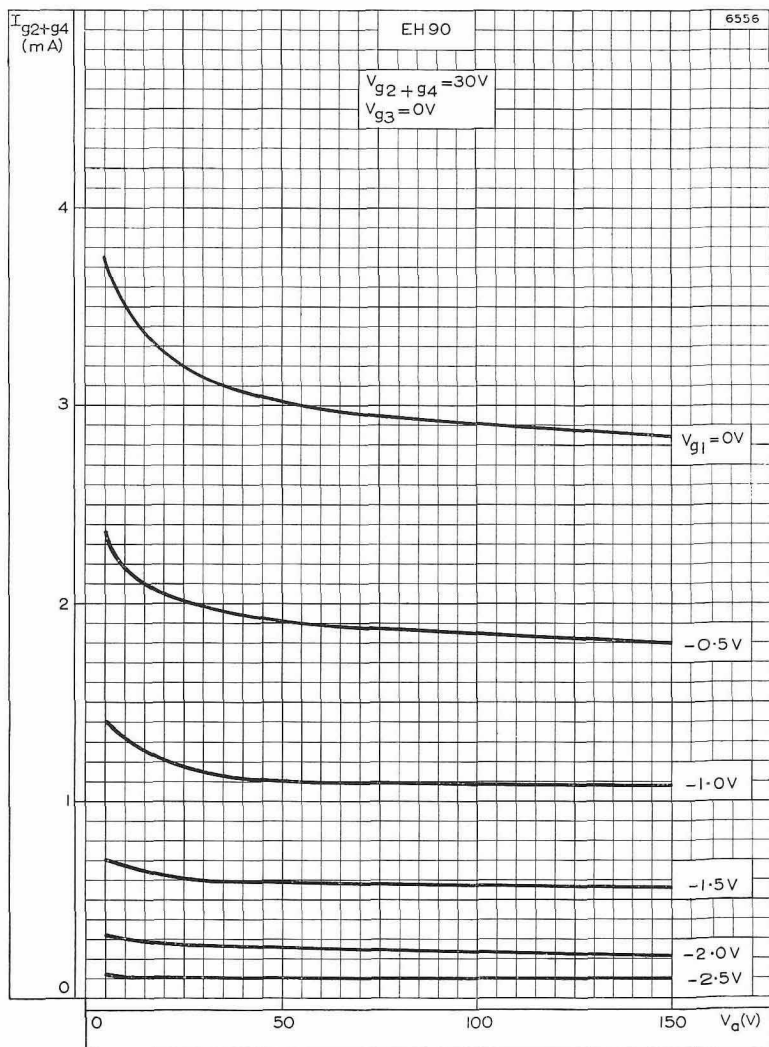
ANODE CURRENT PLOTTED AGAINST CONTROL-GRID (g_1) VOLTAGE
WITH CONTROL-GRID (g_3) VOLTAGE AS PARAMETER



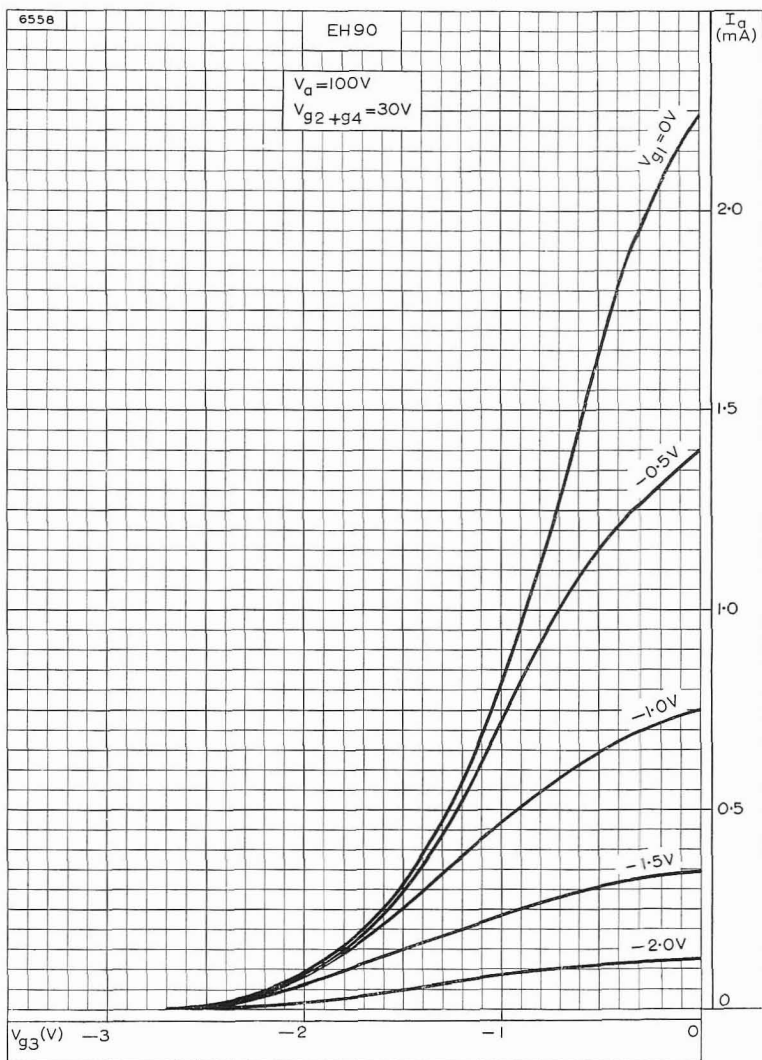
SCREEN-GRID CURRENT PLOTTED AGAINST CONTROL-GRID (g_1) VOLTAGE
WITH CONTROL-GRID (g_3) VOLTAGE AS PARAMETER



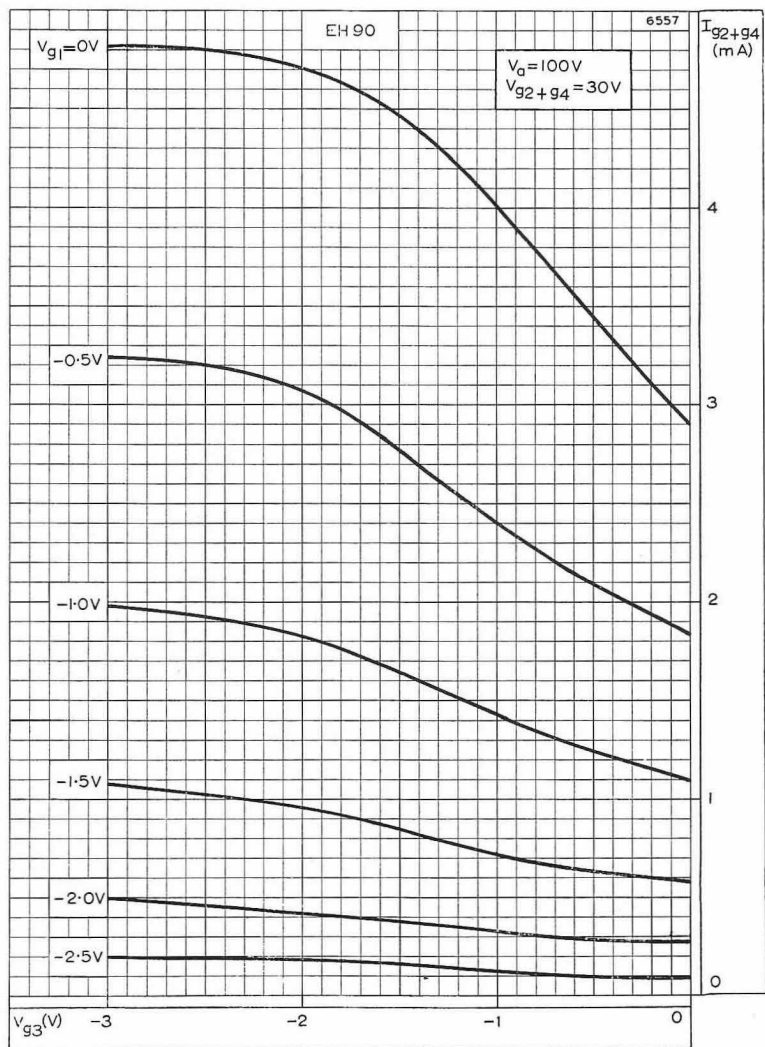
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID (g_1) VOLTAGE AS PARAMETER



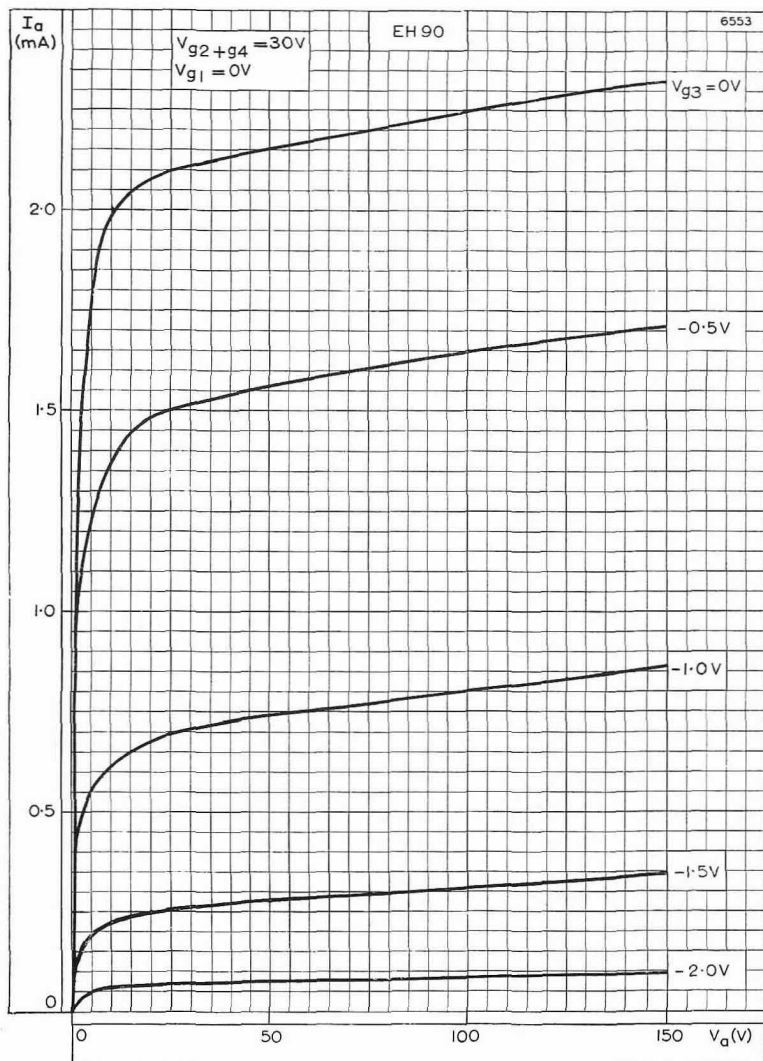
SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID (g_1) VOLTAGE AS PARAMETER



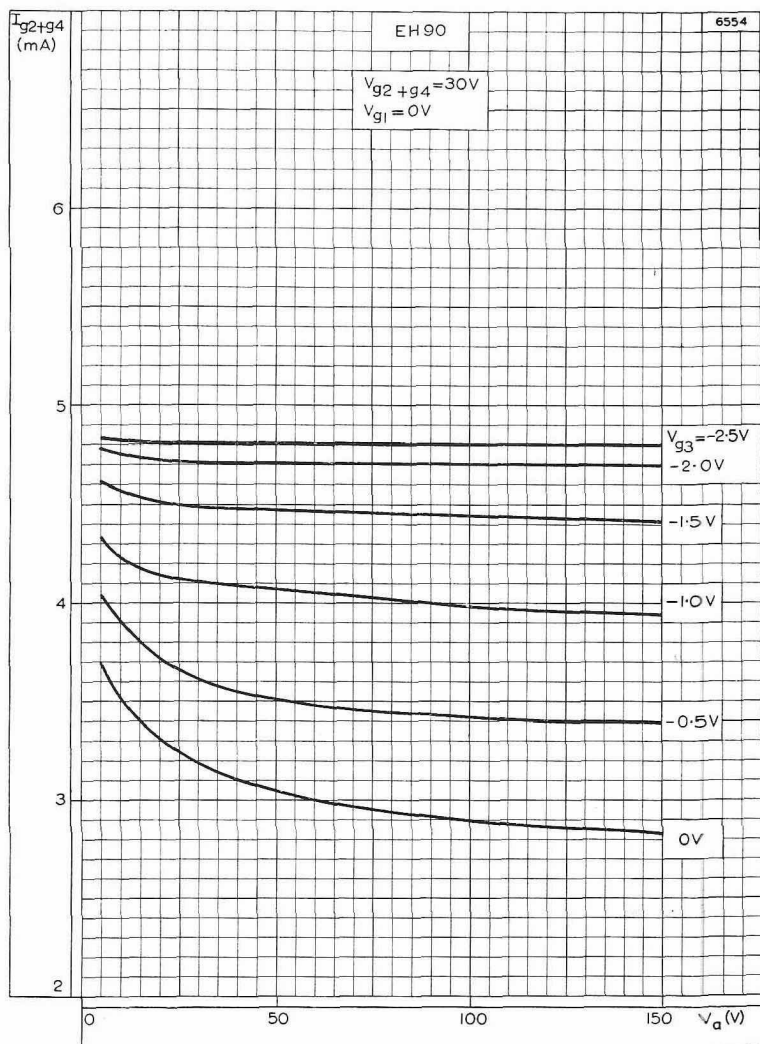
ANODE CURRENT PLOTTED AGAINST CONTROL-GRID (g_3) VOLTAGE
WITH CONTROL-GRID (g_1) VOLTAGE AS PARAMETER



SCREEN-GRID CURRENT PLOTTED AGAINST CONTROL-GRID (g_3) VOLTAGE WITH CONTROL-GRID (g_1) VOLTAGE AS PARAMETER



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID (g_3) VOLTAGE AS PARAMETER



SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE
WITH CONTROL-GRID (g_3) VOLTAGE AS PARAMETER