OUTPUT PENTODE

EL360

Output pentode for use in radar scanning, series regulator and similar applications and in pulse modulator applications.

HEATER

V_h	6.3	V
I_h	1.27	A

CAPACITANCES

c_{out}	7.7	pF
c_{in}	17.5	pF
$c_{a \cdot g1}$	<1.1	pF

CHARACTERISTICS

Pentode connection

V_a	100	250	V
V_{g2}	100	250	V
V_{g1}	−6.3	−46	V
I_a	120	48	mA
I_{g2}	8.3	5.5	mA
g_m	16.5	6.9	mA/V
r_a	3.7	13.5	kΩ
μ_{g1-g2}	6.0	5.0	

◄

Triode connection (g₂ connected to a)

V_a	100	V
I_a	100	mA
V_{g1}	−8.0	V
g_m	14.5	mA/V
r_a	380	Ω
μ	5.5	

EL360

DESIGN CENTRE RATINGS (unless otherwise stated)

Scanning, low voltage series regulator, and similar applications

$V_{a(b)}$ max.	1.0	kV
$v_{a(pk)}$ max.	7.0	kV
$-v_{a(pk)}$ max. ($p_a = 15W$)	1.0	kV
$-v_{a(pk)}$ max. ($p_a = 10W$)	1.5	kV
V_a max.	800	V
$V_{g2(b)}$ max.	800	V
V_{g2} max.	400	V
$-v_{g1(pk)}$ max.	1.0	kV
p_a max.	15	W
p_{g2} max.	5.0	W
V_{a+g2} max.	400	V
p_{a+g2} max.	18	W
I_k max.	200	mA
R_{g1-k} max.	500	kΩ
V_{h-k} max.	200	V

High voltage series regulator applications

$V_{a(b)}$ max.	4.0	kV
$V_{g2(b)}$ max.	550	V
V_a max.	2.0	kV
V_{g2} max.	400	V
p_a max.	6.0	W
p_{g2} max.	2.0	W
I_k max.	5.0	mA

Pulse modulator applications

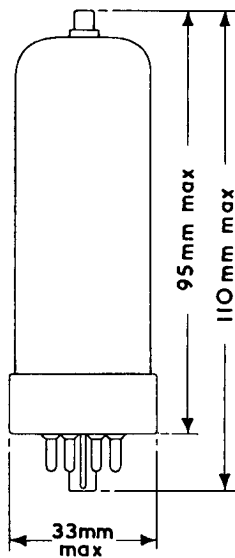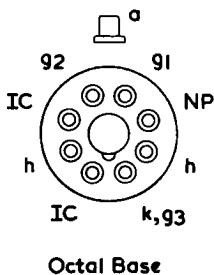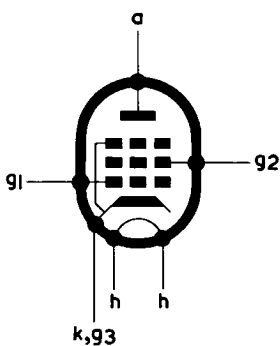|		
V_a max. (absolute)	5.0	kV
p_a max.	10	W
*$i_{k(pulse)}$ max. (absolute)	4.0	A
V_{g2} max.	550	V
p_{g2} max.	3.0	W
$-V_{g1}$ max.	300	V
$+v_{g1(pulse)}$ max.	60	V

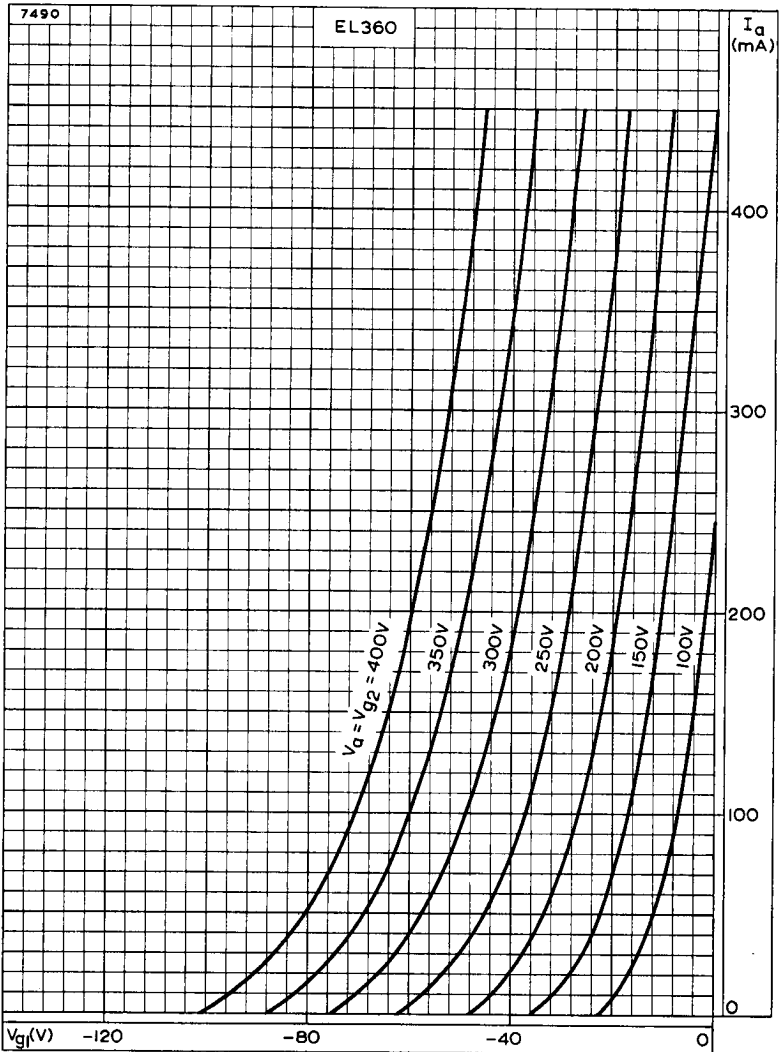*Max. pulse duration 1μs, duty factor 0.001

OUTPUT PENTODE

EL360

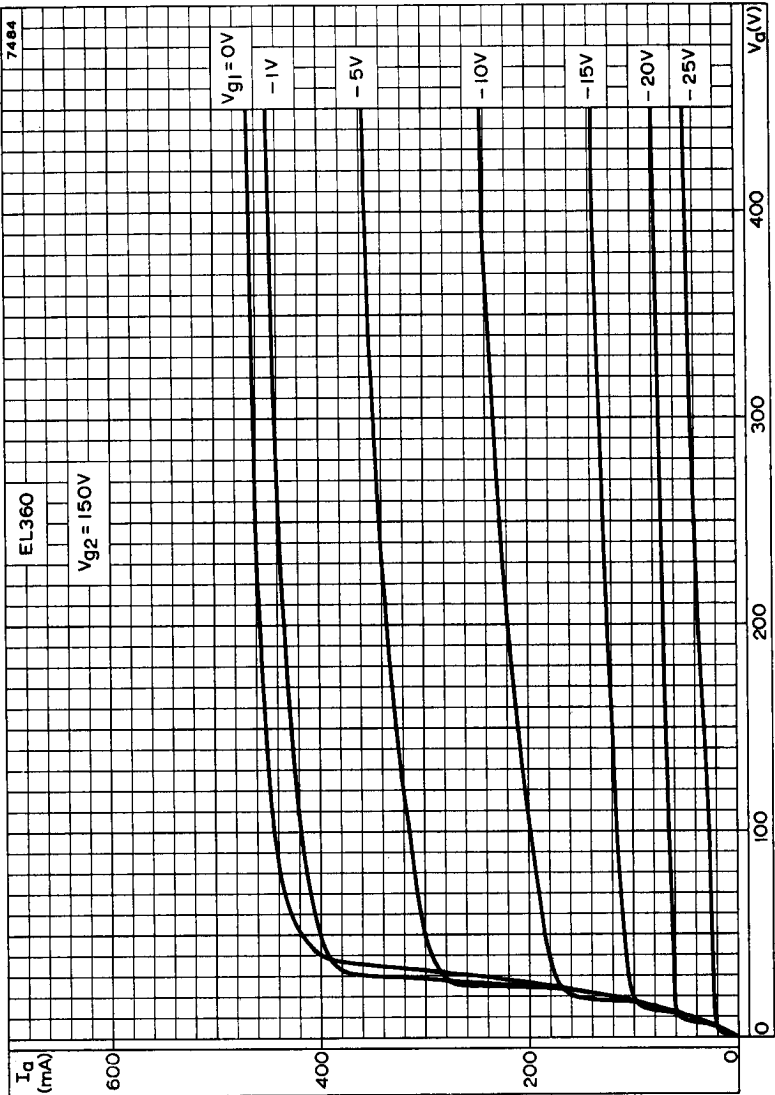*Output pentode for use in radar scanning, series regulator and similar applications and in pulse modulator applications.*
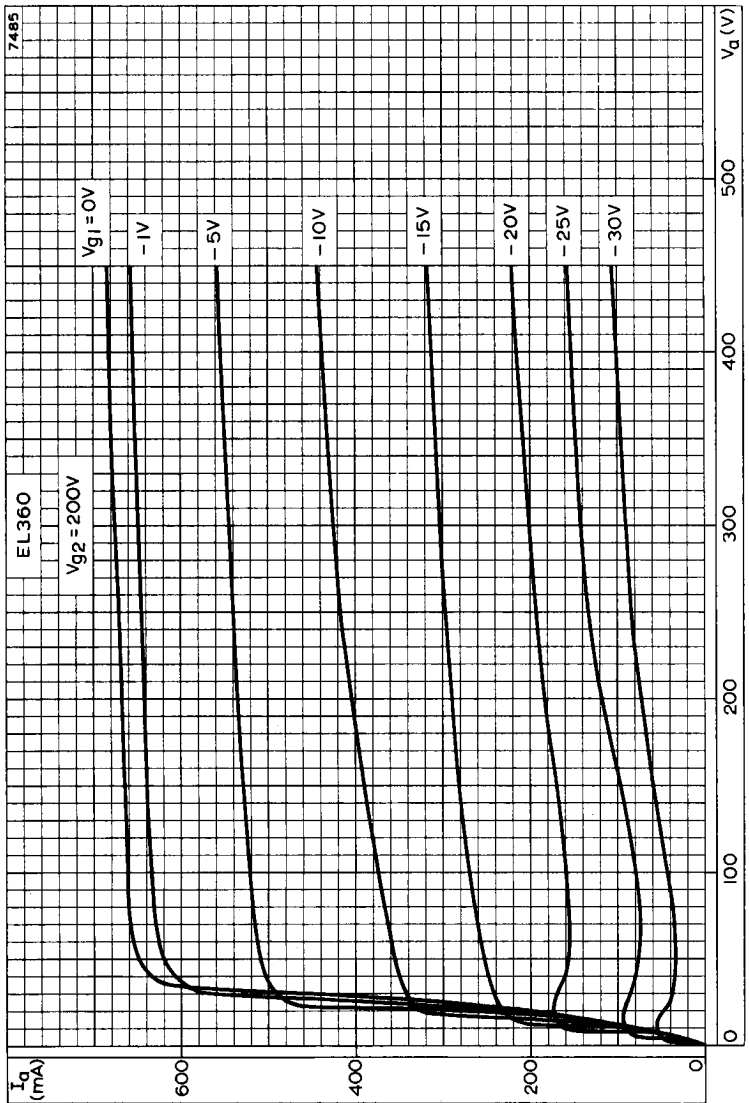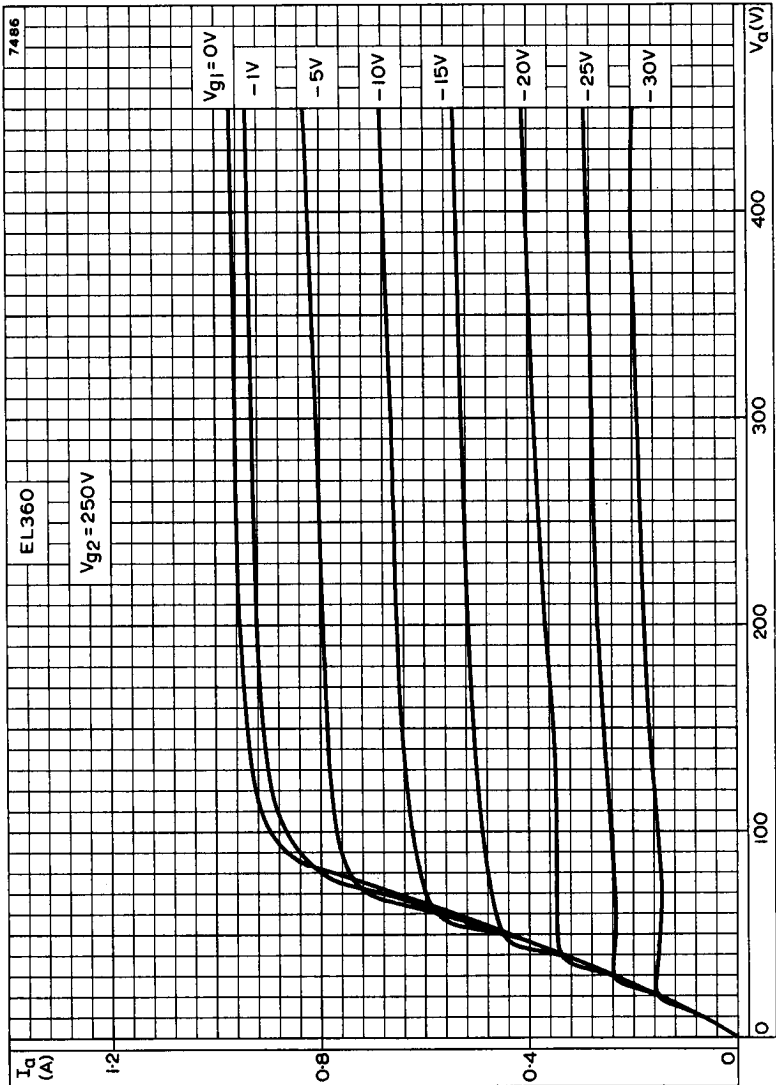
2277

a

92   91

IC   NP

h   h

IC   k,g3

Octal Base

a

g2

g1

h   h

k,g3

95 mm max

110 mm max

33mm max

Mullard

ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH ANODE AND SCREEN-GRID VOLTAGES AS PARAMETERS

EL360

$V_{g2} = 150V$

$V_{g1} = 0V$, $-1V$, $-5V$, $-10V$, $-15V$, $-20V$, $-25V$

$V_a(V)$

I_a (mA)

7484

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 150V$

7485

EL360

$V_{g2} = 200V$

$V_{g1} = 0V$

$-1V$

$-5V$

$-10V$
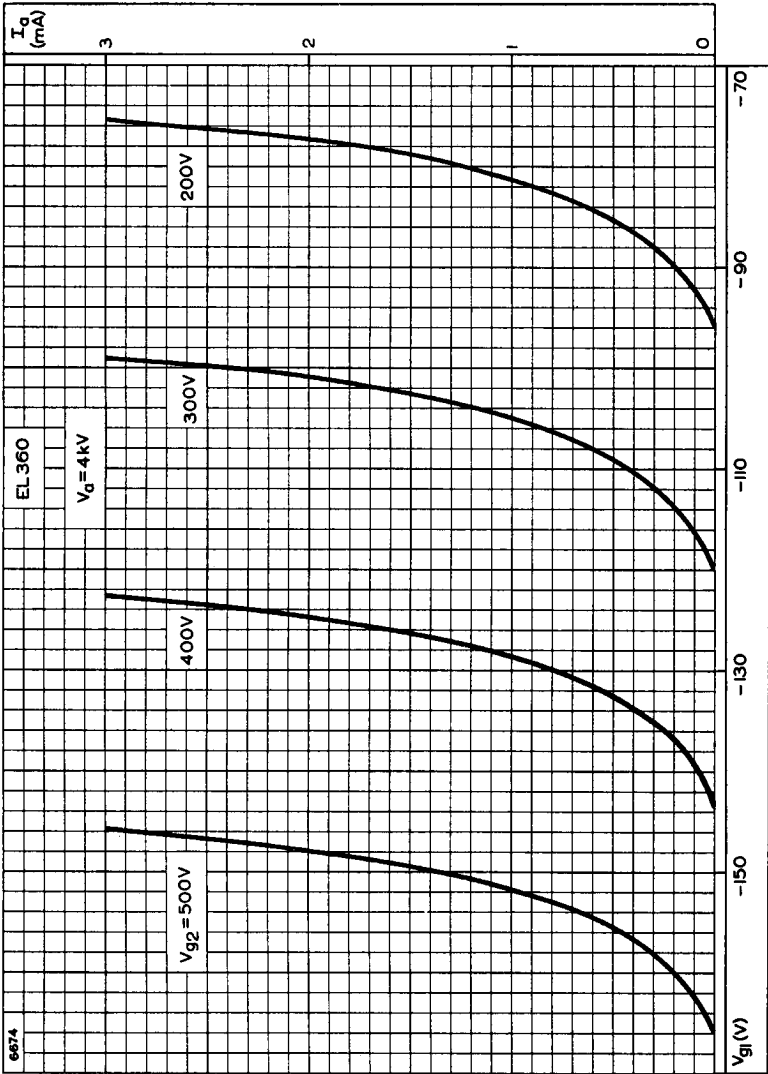
$-15V$

$-20V$

$-25V$

$-30V$

$V_a (V)$

I_a (mA)

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 200V$

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
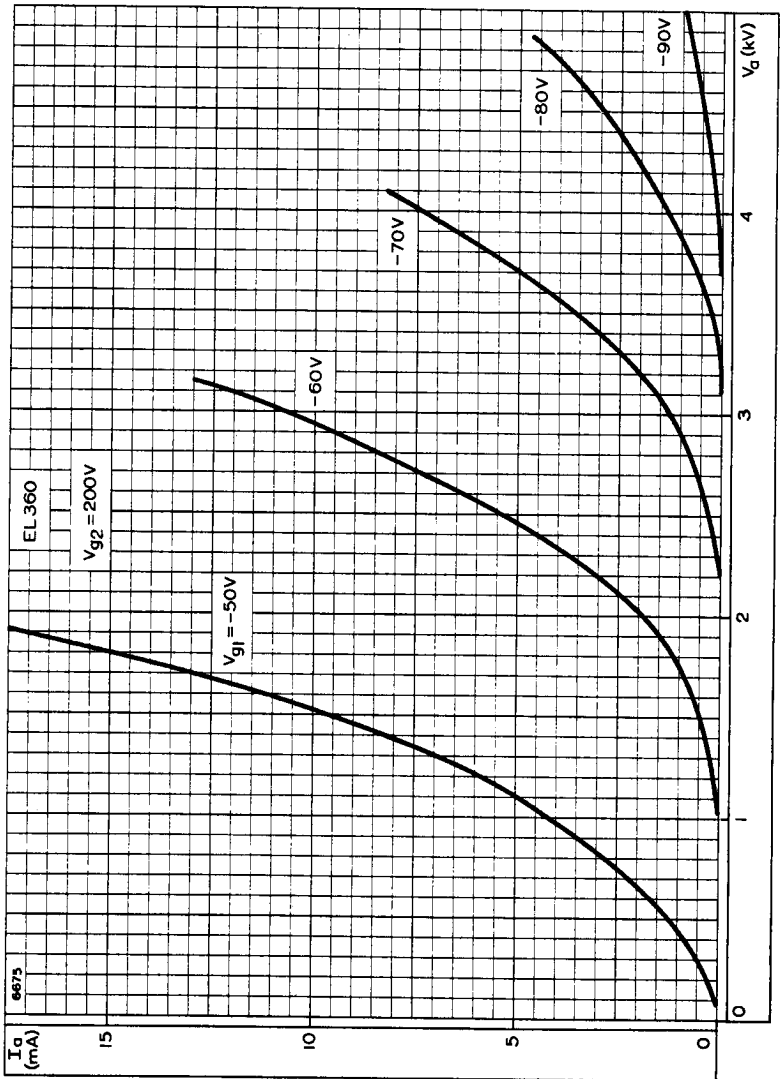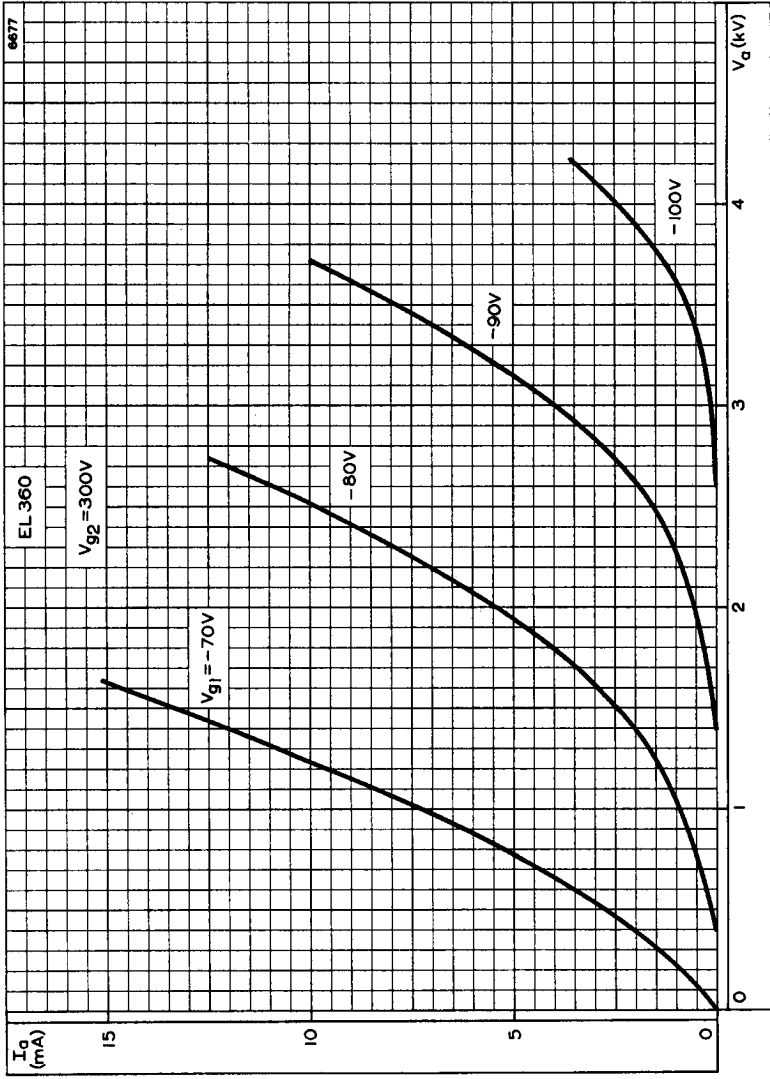CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 250V$

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ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 300V$

Mullard

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
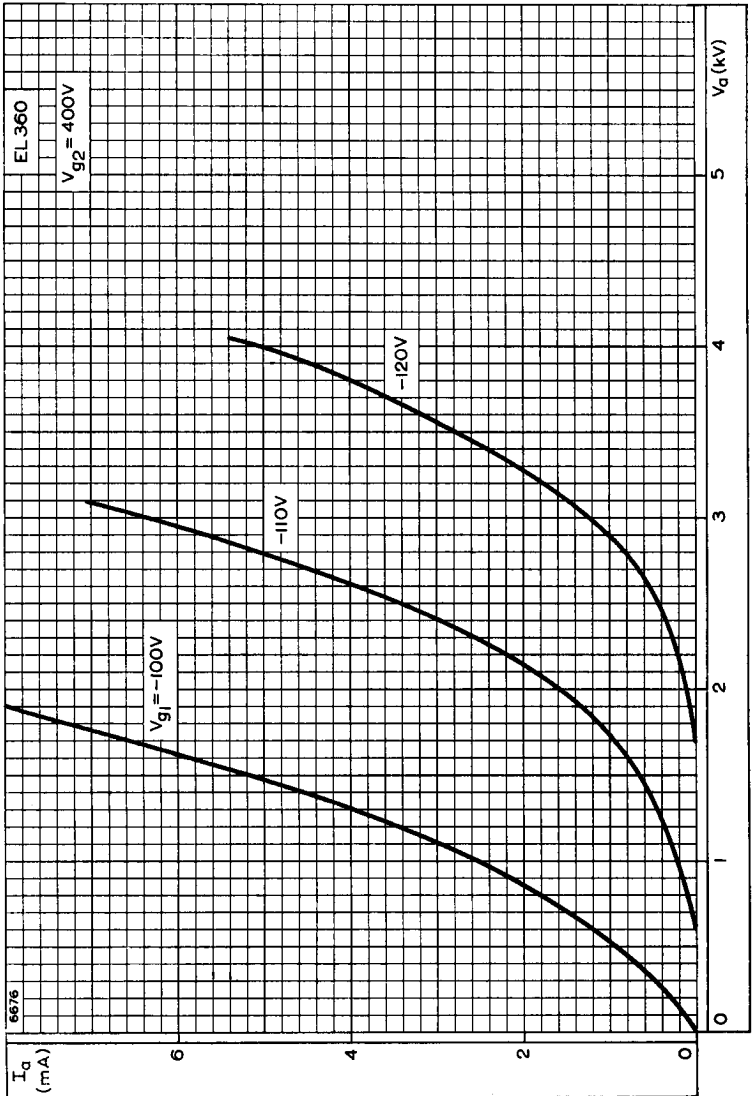CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 350V$

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$V_{g2} = 400V$

$V_a(V)$

$V_{g1} = 0V$

−1V
−5V
−10V
−15V
−20V
−25V
−30V
−35V
−40V
−45V
−50V
−55V
−60V

7489

I_a (A)

1·2

0·8

0·4

0

0   100   200   300   400   500

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 400V$

Mullard

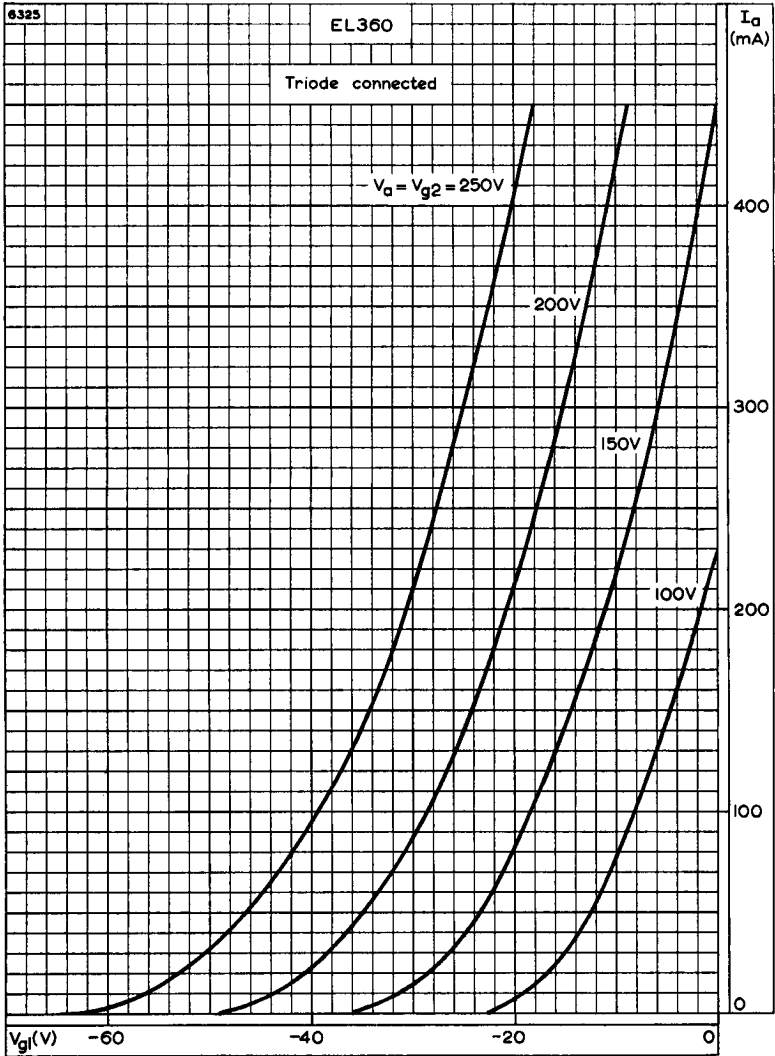ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE
WITH SCREEN-GRID VOLTAGE AS PARAMETER. $V_a = 4kV$

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE UP TO
5kV WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 200V$

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE UP TO
4kV WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 300V$

EL 360

$V_{g2} = 400V$
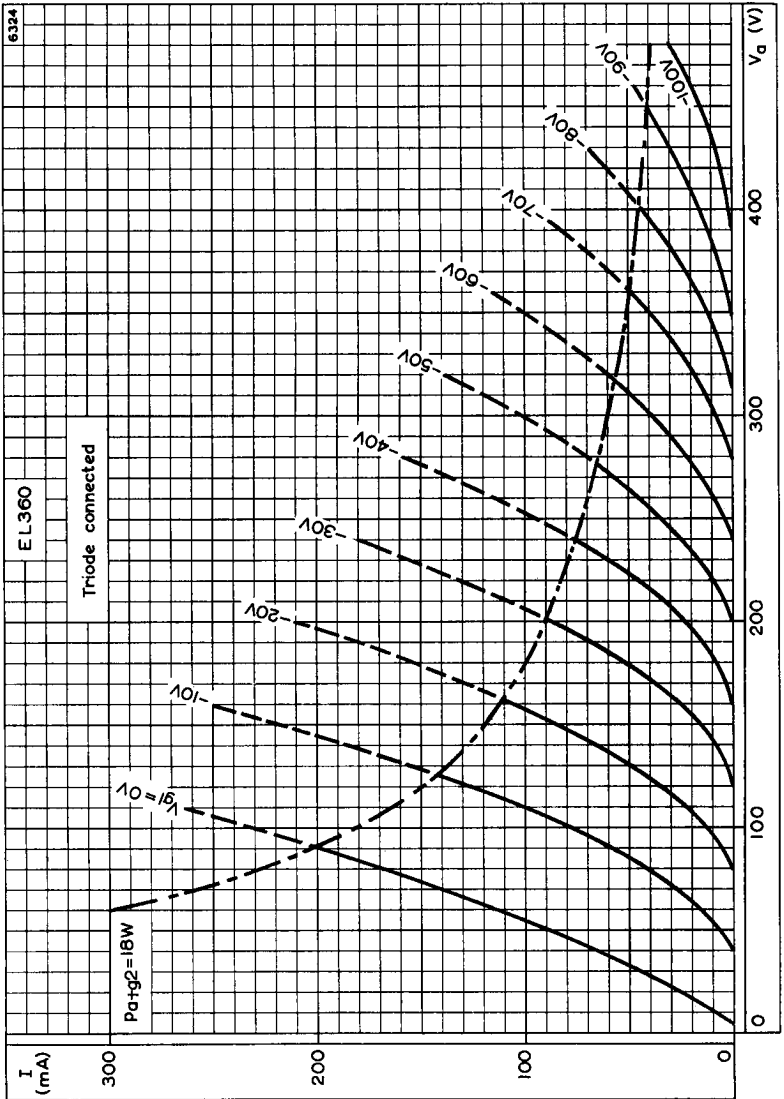
V_a (kV)

I_a (mA)

$V_{g1} = -100V$

−110V

−120V

6676

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE UP TO 4kV WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 400V$

Mullard

ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH
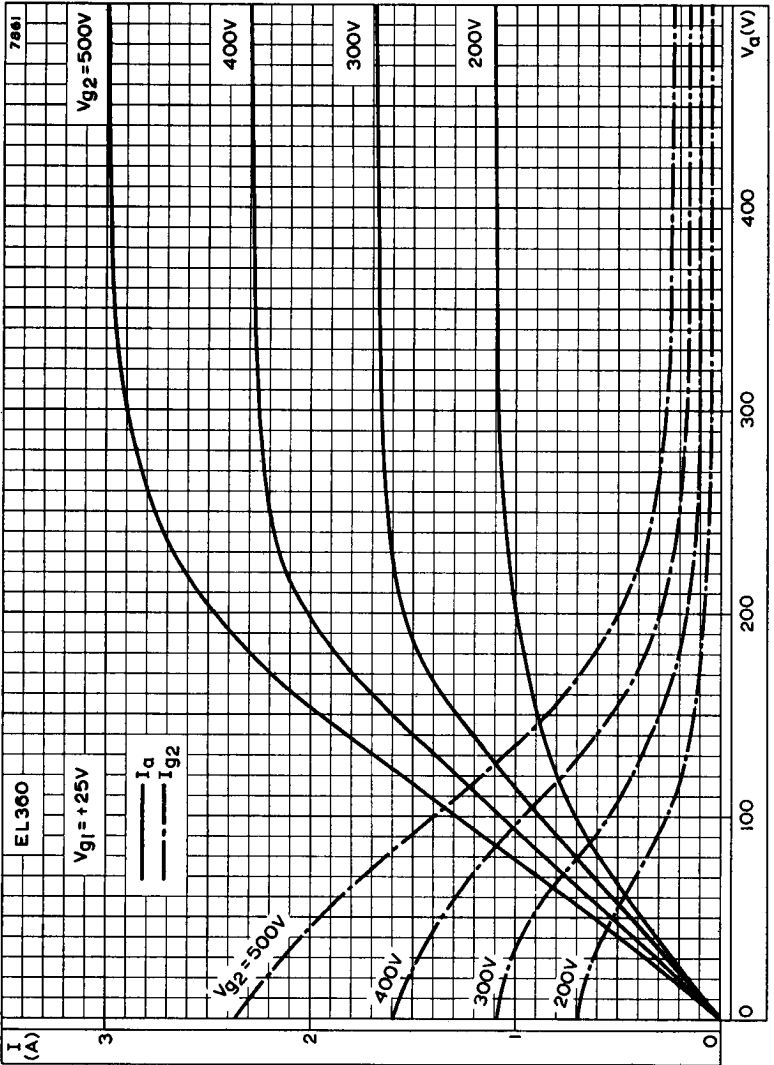ANODE AND SCREEN-GRID VOLTAGES AS PARAMETER WHEN TRIODE
CONNECTED

EL360

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
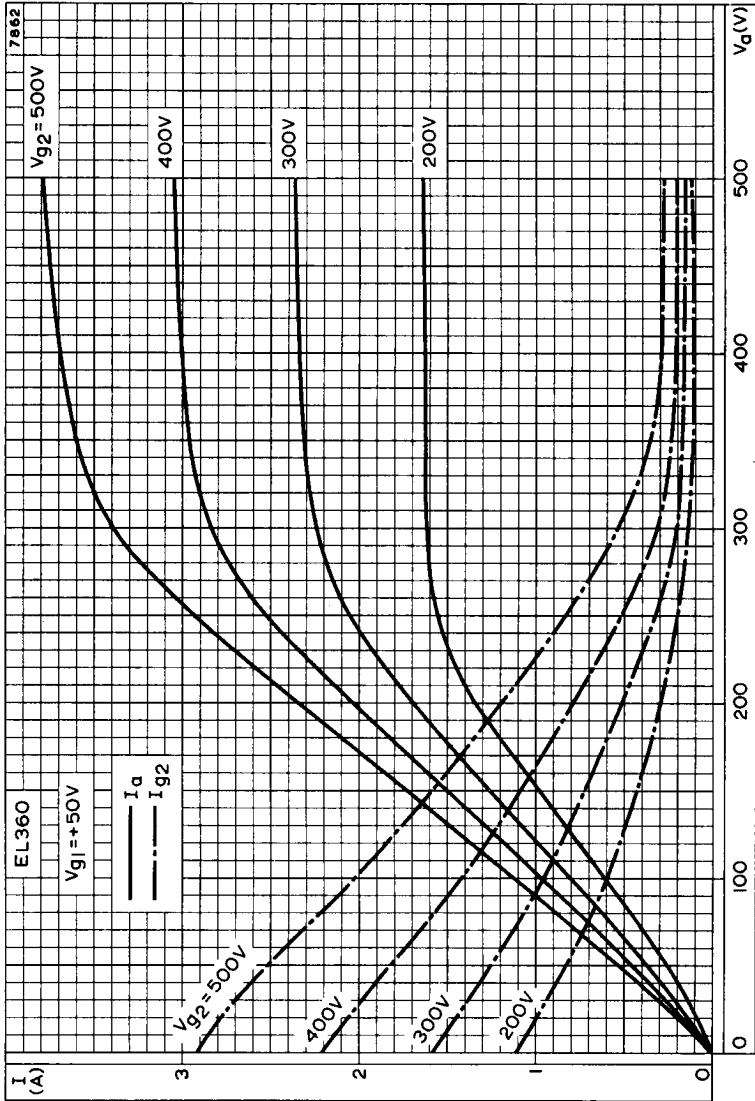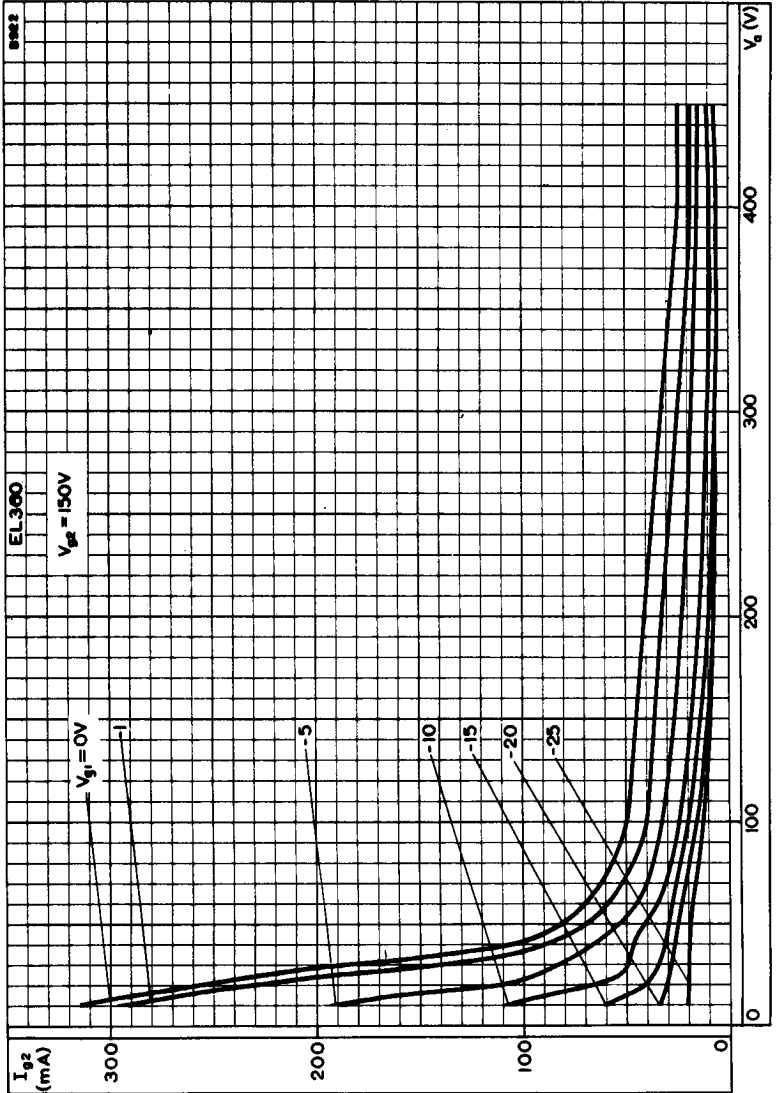CONTROL-GRID VOLTAGE AS PARAMETER WHEN TRIODE CONNECTED
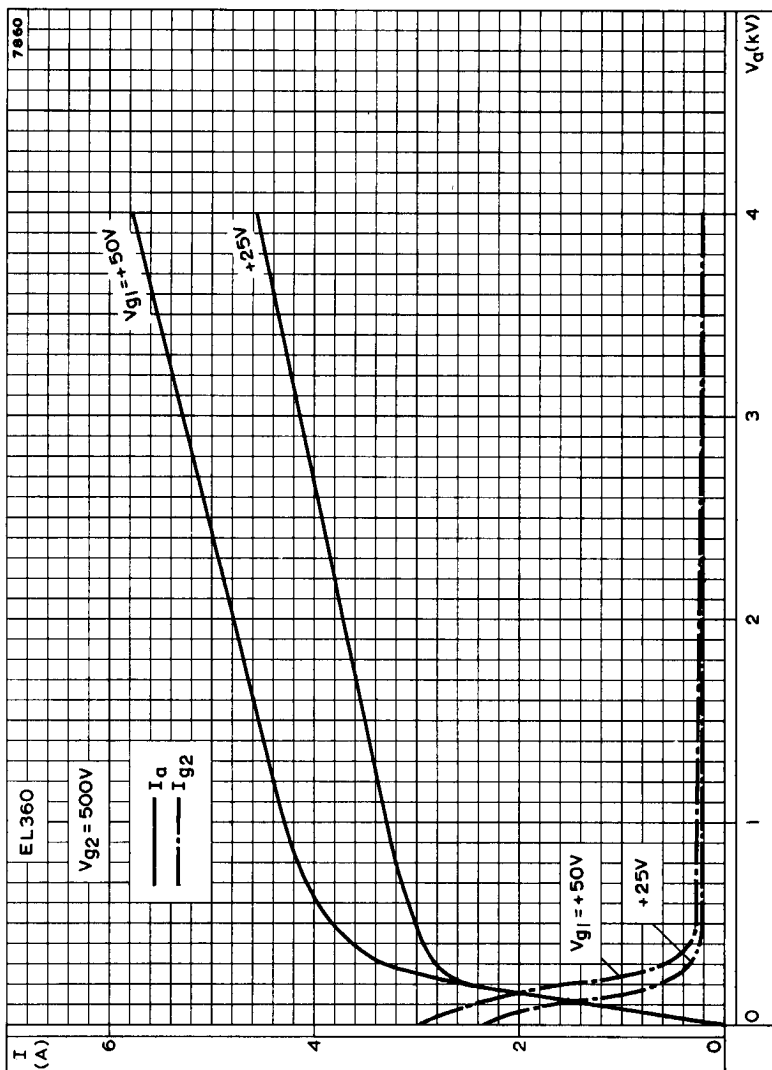
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER
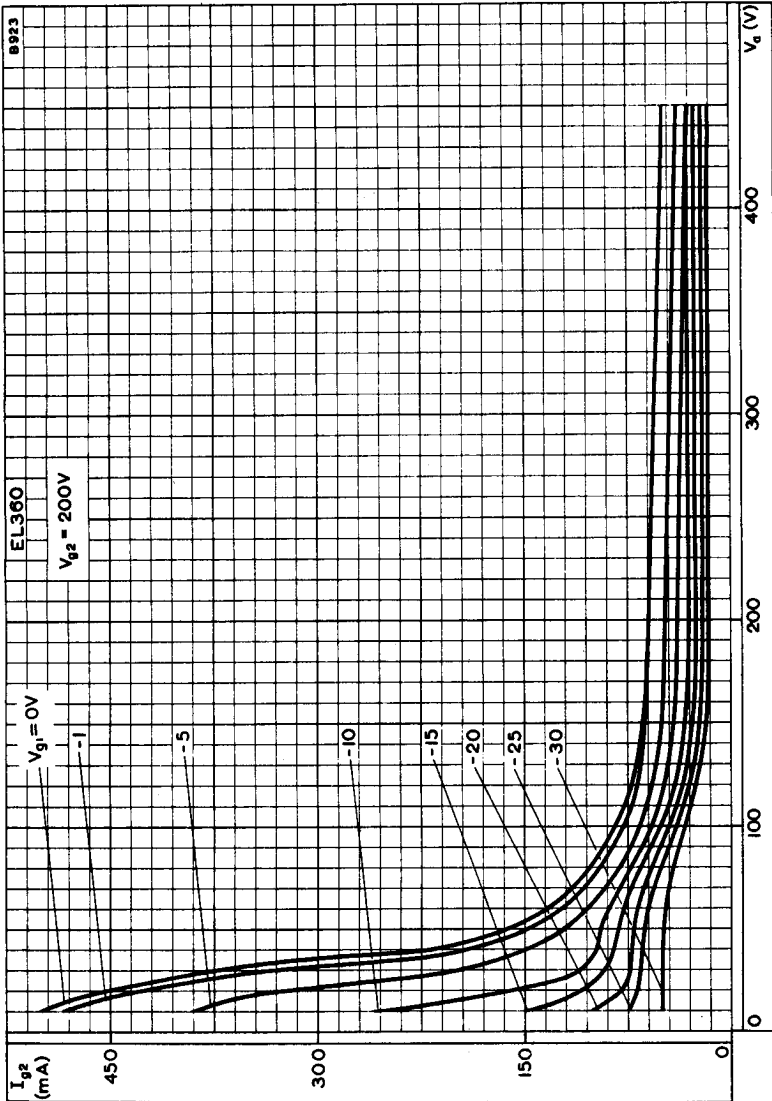
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE
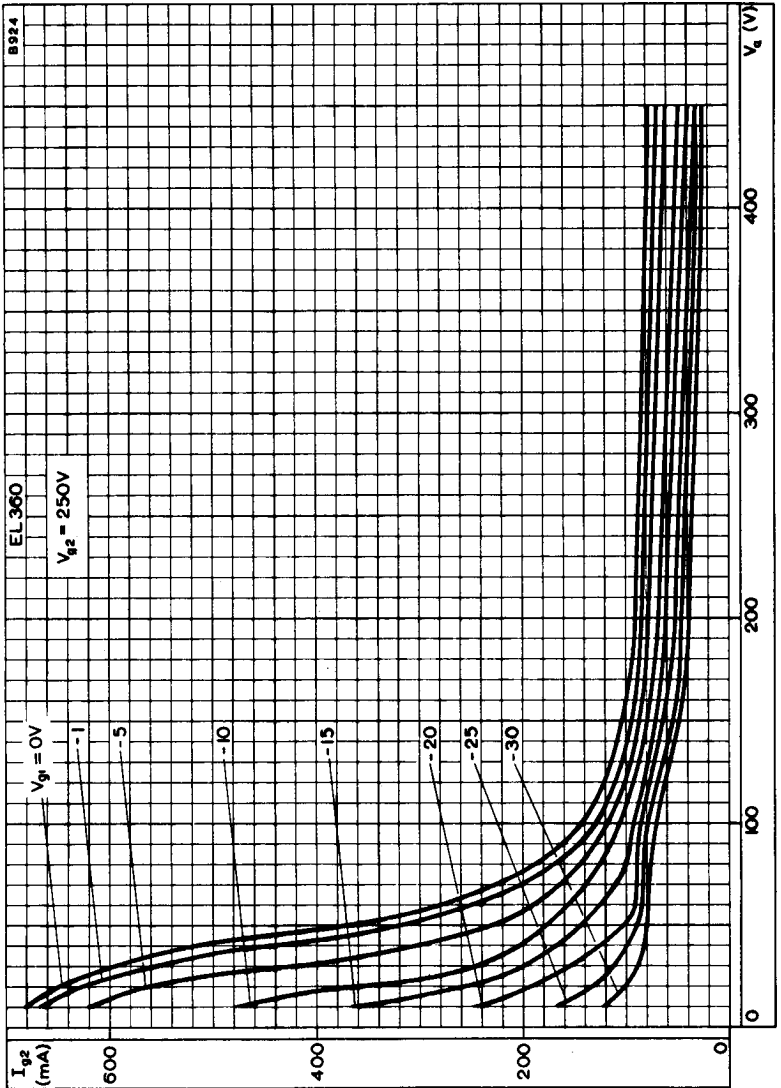VOLTAGE WITH SCREEN-GRID VOLTAGE AS PARAMETER. $V_{g1} = +25V$

ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE
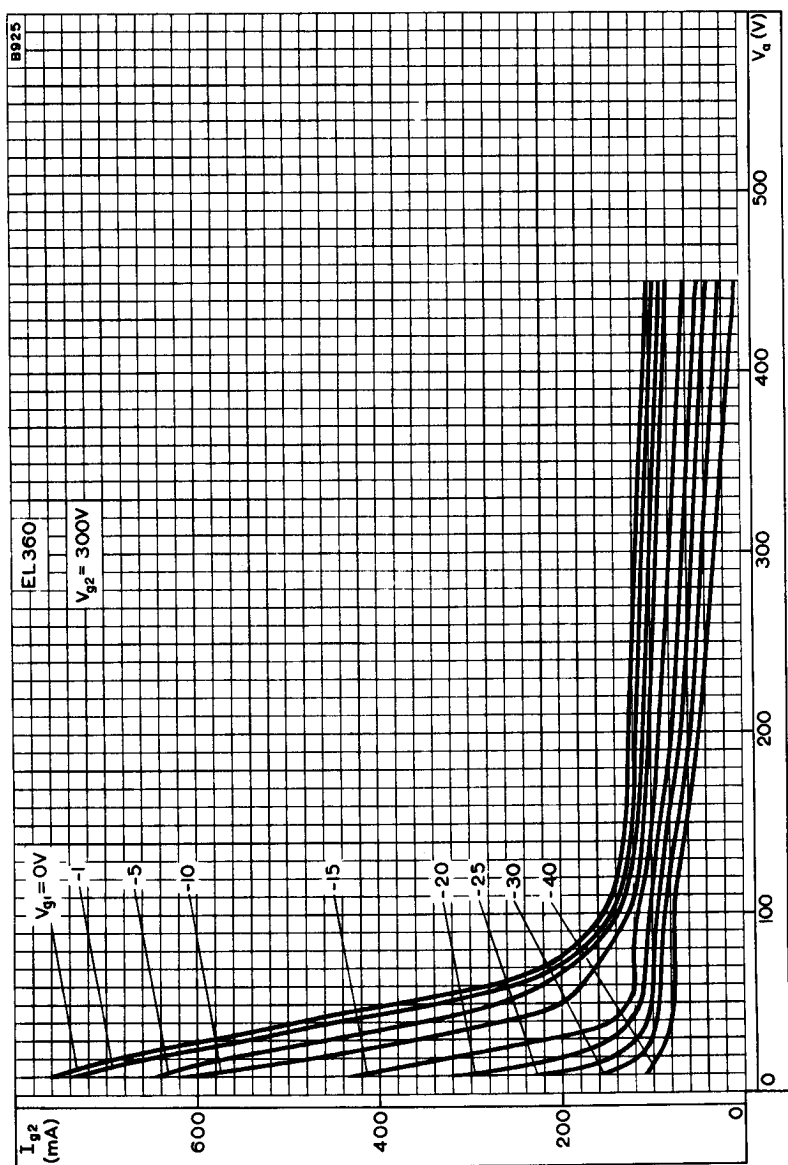VOLTAGE WITH SCREEN-GRID VOLTAGE AS PARAMETER. $V_{g1} = +50V$

SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 150V$
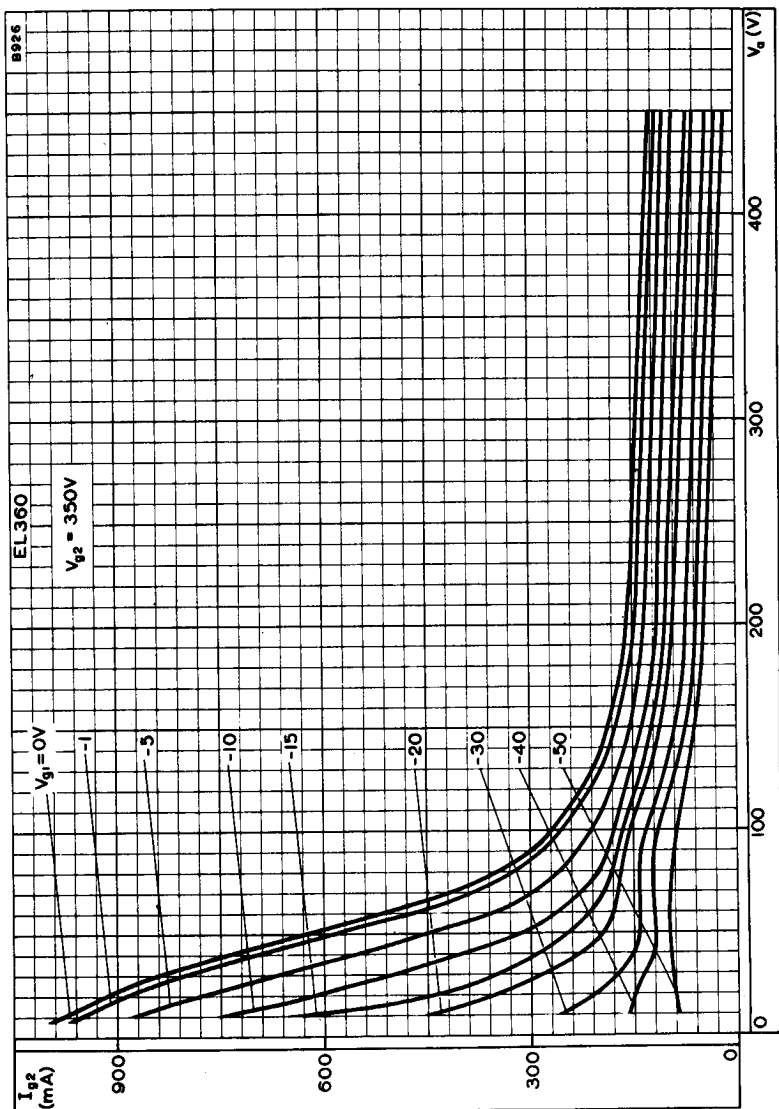
SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 200V$

SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 250V$
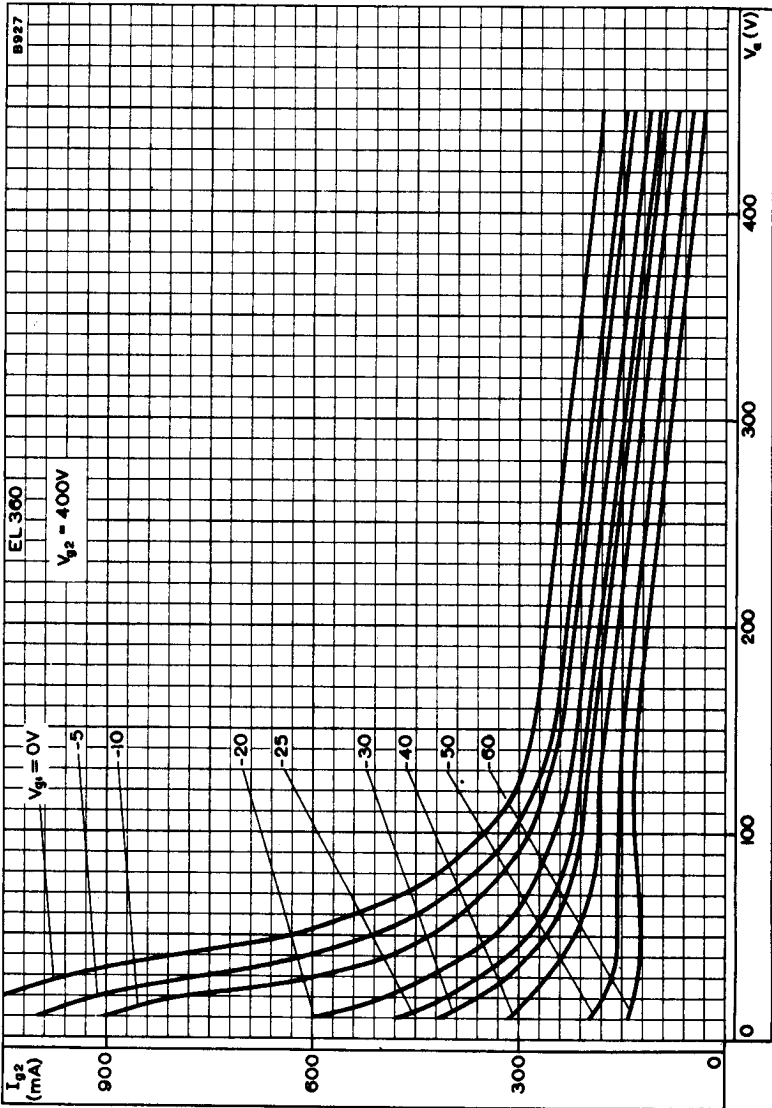
SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 300V$

SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 350V$

SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 400V$