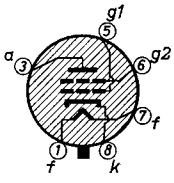
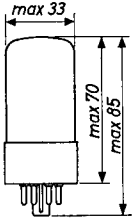
THYRATRON; inert gas filled tetrode with negative control characteristic
THYRATRON; tétrode à remplissage de gaz inerte avec caractéristique de commande négative
STROMTORRÖHRE; edelgasgefüllte Tetrode mit negativer Steuerkennlinie

Heating : indirect
Chauffage: indirect
Heizung : indirekt

V_f = 6,3 V
I_f = 950 mA
T_w = min. 20 sec [1]

Dimensions in mm
Dimensions en mm
Abmessungen in mm





Base, culot, Sockel: OCTAL

Typical characteristics
Caractéristiques types
Kenndaten

V_{arc}		=	10	V
V_a/V_{g1}	(V_{g2} = 0 V) (R_{g1} = 0 Ω)	=	275	[2]
V_a/V_{g2}	(V_{g1} = 0 V) (R_{g2} = 0 Ω)	=	370	[2]

V_a		=	650	V
I_{ap}		=	2	A
R_{g1}		=	100	kΩ
V_{g1}		=	-100 -50	V
T_{dion}		=	240 1000	µsec

[1]) For I_{kp} = 2 A
Pour I_{kp} = 2 A
Für I_{kp} = 2 A

[2]) At striking point
A l'allumage
Bei Zündung

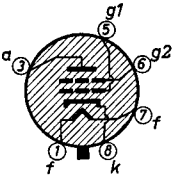
PHILIPS PL 6574

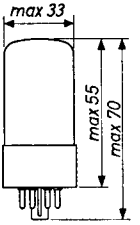
THYRATRON; inert gas filled tetrode with negative control characteristic
THYRATRON; tétrode à remplissage de gaz inerte avec caractéristique de commande négative
STROMTORRÖHRE; edelgasgefüllte Tetrode mit negativer Steuerkennlinie

Heating :indirect
Chauffage:indirect
Heizung :indirekt

V_f = 6,3 V
I_f = 950 mA
T_w = min. 15 sec

Dimensions in mm
Dimensions en mm
Abmessungen in mm





Base, culot, Sockel: OCTAL

Typical characteristics
Caractéristiques types
Kenndaten

V_{arc}		=	10 V
V_a/V_{g1}	(V_{g2} = 0 V) (R_{g1} = 0 Ω)	=	275 [1]
V_a/V_{g2}	(V_{g1} = 0 V) (R_{g2} = 0 Ω)	=	370 [1]

[1] At striking point
A l'allumage
Bei Zündung

Capacitances
Capacités
Kapazitäten

C_{ag_1}	= 0,25 pF
C_{ak}	= 0,06 pF
C_{g_1k}	= 0,2 pF
C_{ag_2}	= 3,0 pF

Limiting values (Absolute limits)
Caractéristiques limites (Limites absolues)
Grenzdaten (Absolute Werte)

V_{ap}	= max.	650 V
V_a invp	= max.	1300 V
$-V_{g_2}$	= max.	100 V [3]
$-V_{g_2}$	= max.	10 V [4]
$+I_{g_2}$ (V_a > -10 V)	= max.	20 mA [5]
R_{g_2}	= max.	1 MΩ [6]
$-V_{g_1}$	= max.	250 V [3]
$-V_{g_1}$	= max.	10 V [4]
$+I_{g_1}$ (V_a > -10 V)	= max.	20 mA [5]
R_{g_1} (I_a < 200 mA)	= max.	10 MΩ
R_{g_1} (I_a > 200 mA)	= max.	2 MΩ
I_k (T_{av} = max. 15 sec)	= max.	300 mA
I_{kp}	= max.	2 A
I_k surge (T = max. 0,1 sec)	= max.	10 A
V_{kfp} (k neg.; f pos.)	= max.	25 V
V_{kfp} (k pos.; f neg.)	= max.	100 V
t_{amb}	=	-75°C/+90°C

---

3) Before conduction
Avant l'allumage
Gelöschte Röhre

4) During conduction
Pendant la période de conduction
Gezündete Röhre

5) T_{av} = 1 cycle
T_{av} = 1 Periode

6) Where circuit conditions permit, g_2 should be connected directly to the cathode
Si le montage le permet, g_2 doit être reliée directement à la cathode
g_2 soll möglichst direkt mit der Katode verbunden werden

Limiting values (ABSOLUTE LIMITS)
Caractéristiques limites (LIMITES ABSOLUES)
Grenzdaten (ABSOLUTE WERTE)

V_{a_p}	= max.	650	V
$V_{a\ inv_p}$	= max.	1,3	kV
$-V_{g2}$	= max.	100	V [2]
$-V_{g2}$	= max.	10	V [3]
$-V_{g1}$	= max.	250	V [2]
$-V_{g1}$	= max.	10	V [3]
I_k (T_{av} = max. 15 sec)	= max.	300	mA
I_{k_p}	= max.	2	A
$I_{k\ surge}$ (T = max. 0,1 sec)	= max.	10	A
$+I_{g2}$ (V_a > -10 V)	= max.	20	mA [4]
$+I_{g1}$ (V_a > -10 V)	= max.	20	mA [4]
$+I_{g1_p}$	= max.	1	mA [5]
R_{g1} (I_k = 200 mA)	= max.	10	MΩ
V_{kf_p} (k pos.; f neg.)	= max.	100	V
V_{kf_p} (k neg.; f pos.)	= max.	25	V
t_{amb}	=	-75/+90	°C

---

[2] Before conduction
Avant l'allumage
Gelöschte Röhre

[3] During conduction
Pendant la periode de conduction
Gezündete Röhre

[4] T_{av} = 1 cycle
T_{av} = 1 Periode

[5] During the time that V_a is more negative than -10 V
Pendant le temps où V_a est plus negative que -10 V
Während der Zeit wenn V_a mehr negatif ist als -10 V

→

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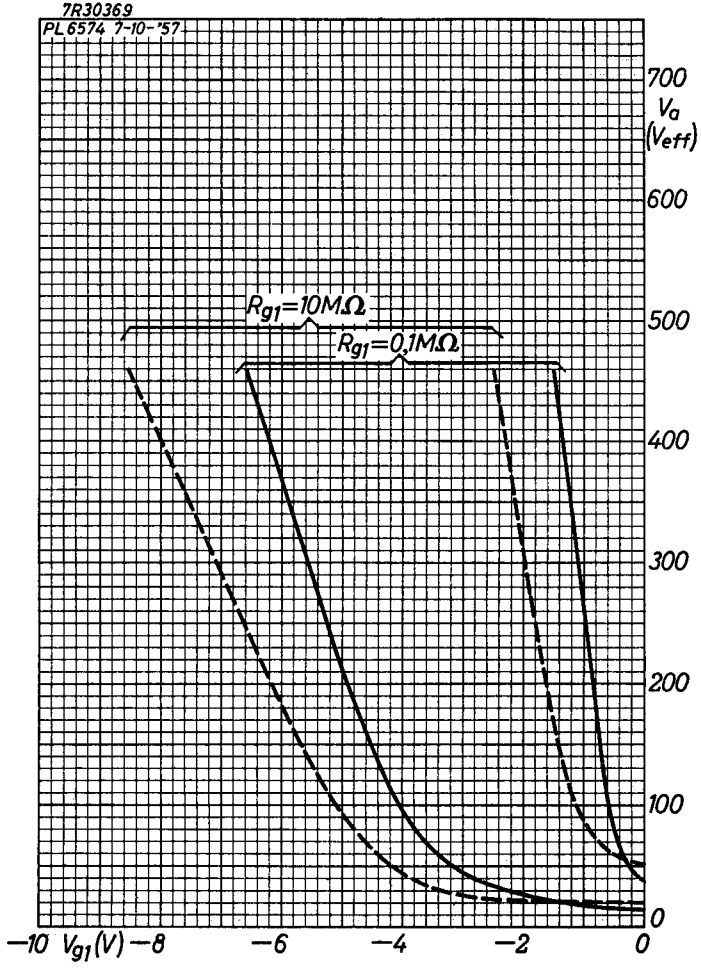


10.10.1957

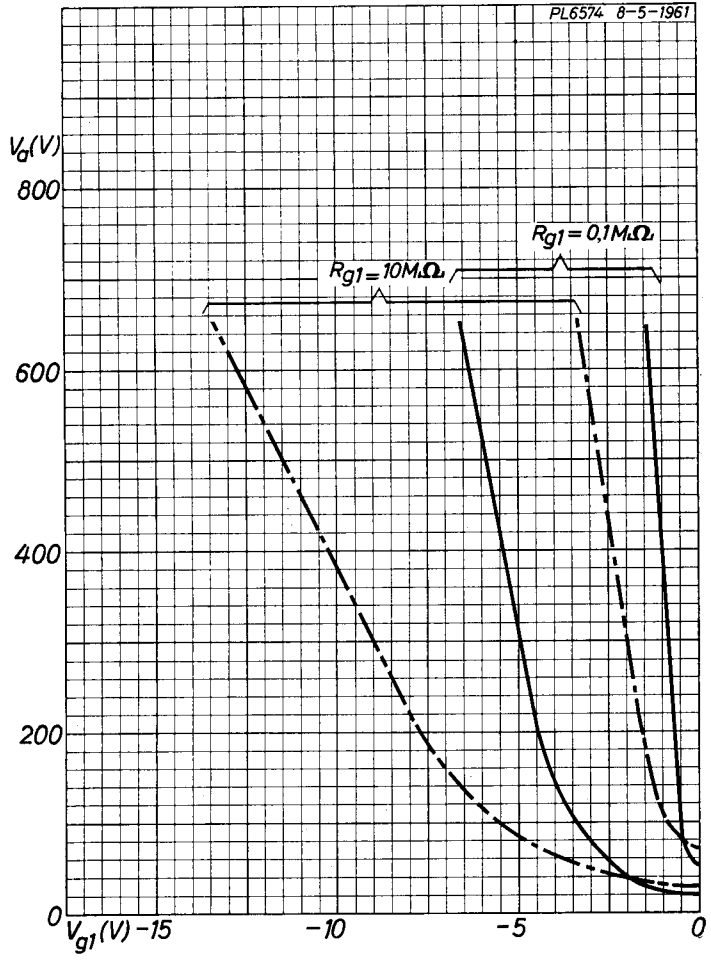
A

PHILIPS

PL 6574

7Z00516

PL6574 8-5-1961



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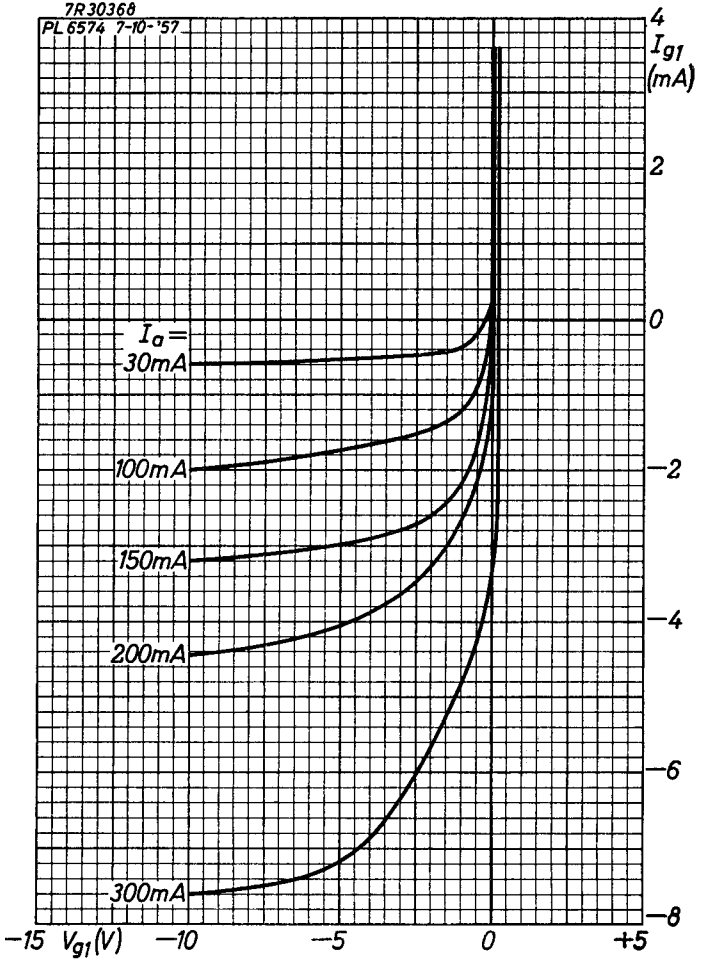
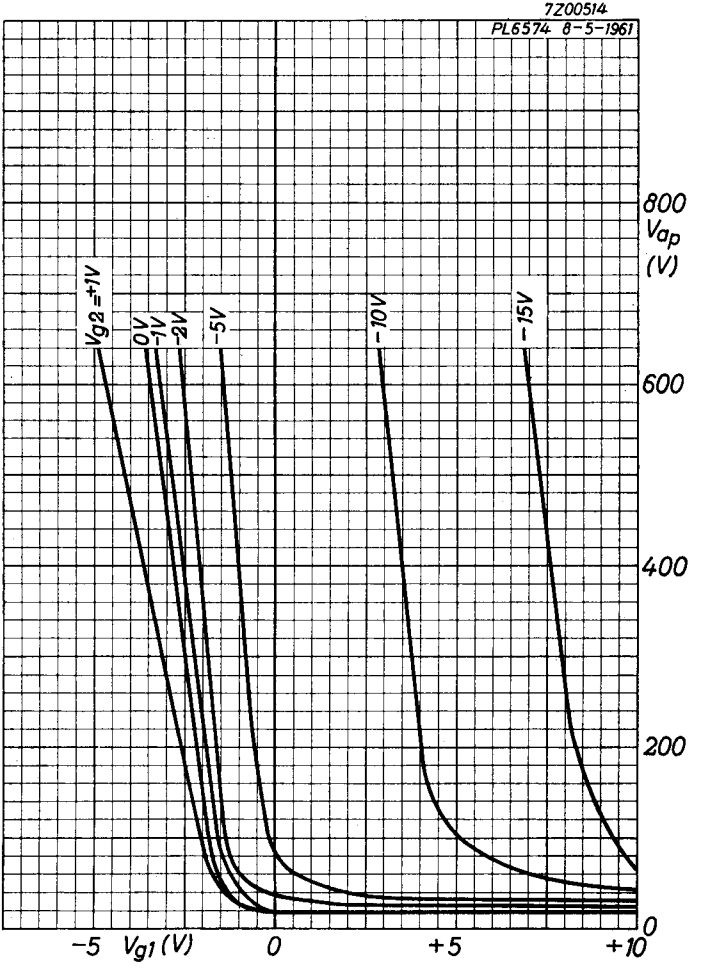

7R30368
PL 6574 7-10-'57
4
I_{g1} (mA)
2
0
−2
−4
−6
−8
I_a =
30mA
100mA
150mA
200mA
300mA
−15
V_{g1}(V)
−10
−5
0
+5

PL 6574

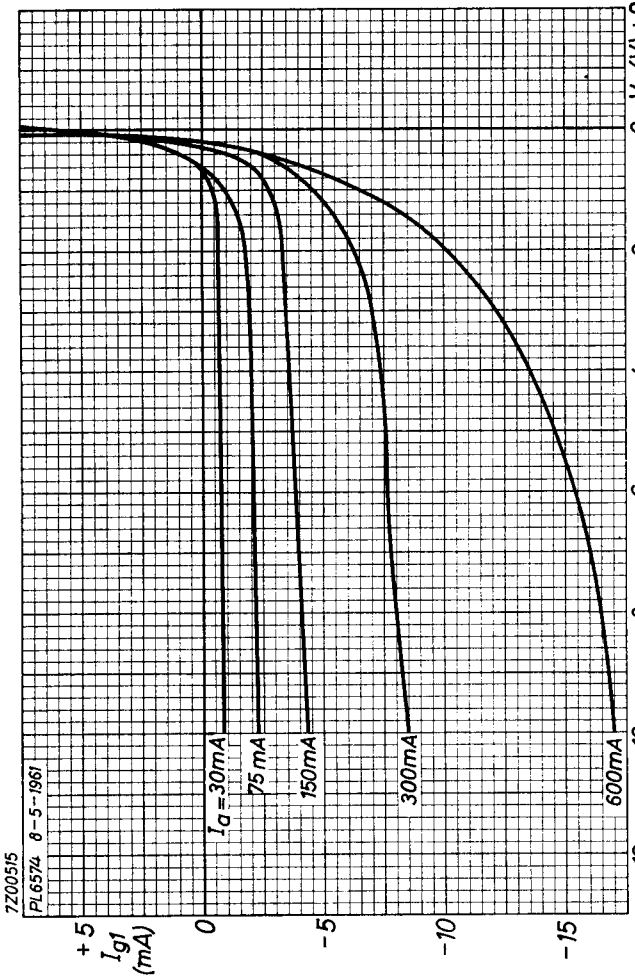
PHILIPS



B

PHILIPS

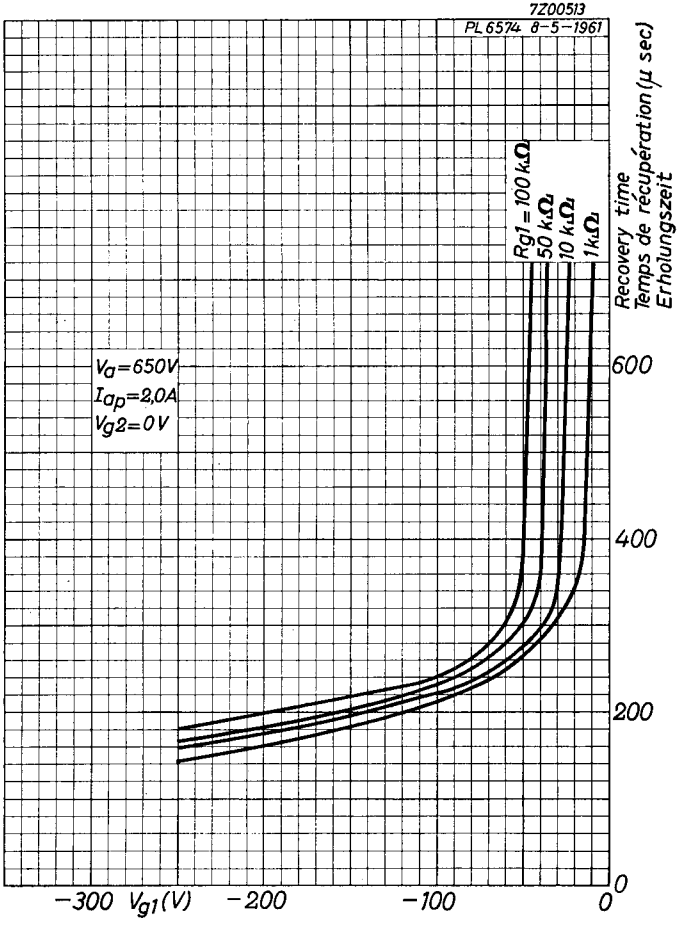
PL 6574



10.10.1961

C

PHILIPS


7Z00513
PL 6574 8-5-1961
Recovery time
Temps de recupération (μ sec)
Erholungszeit
Rg1 = 100 kΩ
50 kΩ
10 kΩ
1 kΩ
Va = 650V
Iap = 2,0A
Vg2 = 0V
600
400
200
0
−300 Vg1 (V)
−200
−100
0

D

PL6574

page	sheet	date
1	1	1959.01.01
2	1	1959.04.04
3	2	1959.01.01
4	2	1959.04.04
5	A	1957.10.10
6	A	1961.10.10
7	B	1957.10.10
8	B	1961.10.10
9	C	1961.10.10
10	D	1961.10.10
11	FP	2000.06.01