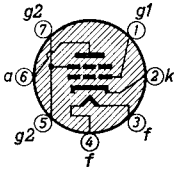
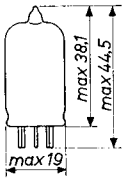
THYRATRON; inert gas filled tetrode with negative control characteristic for industrial applications
THYRATRON; tétrode à remplissage de gaz inerte avec caractéristique de commande négative pour applications industrielles
STROMTORRÖHRE; edelgasgefüllte Tetrode mit negativer Steuerkennlinie für industrielle Verwendung

Heating : indirect
Chauffage: indirect
Heizung : indirekt

V_f = 6,3 V ± 10 %
I_f = 150 mA
T_w = min. 10 sec.

Dimensions in mm
Dimensions en mm
Abmessungen in mm





Base, culot, sockel: Miniature

Capacitances
Capacités
Kapazitäten

C_{g1} = 2,0 pF
C_a = 1,5 pF
C_{ag1} = 0,03 pF

Typical characteristics
Caractéristiques types
Kenndaten

V_{arc} = 10 V
V_a/V_{g1} = 250 [1])
V_a/V_{g2} = 15 [1])

Critical grid No.1 current
Courant de grille No.1 critique (V_a=350 V_{eff})=0,5 µA
Kritischer Strom des 1. Gitters

Recovery time
Temps de rétablissement
Erholungszeit

V_{ap}	=	500	V
I_{kp}	=	100	mA
T_{imp}	=	20	µsec
R_{g1}	=	1	kΩ
V_{g1}	=	-13 -100	$V_{=}$
T_{dion}	=	40 30	µsec

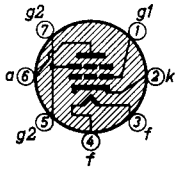
[1]) At striking point; a l'allumage; bei Zündung

THYRATRON; inert gas filled tetrode with negative control characteristic for industrial applications
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Base, culot, sockel: Miniature

Capacitances
Capacités
Kapazitäten

C_{g1} = 2,0 pF
C_a = 1,5 pF
C_{ag1} = 0,03 pF

Typical characteristics
Caractéristiques types
Kenndaten

V_{arc} = 10 V
V_a/V_{g1} (R_{g2} = 0 Ω) = 250 [1]
V_a/V_{g2} (R_{g1} = 0 Ω) = 15 [1]

Critical grid No.1 current
Courant de grille No.1 critique (V_a=350 V_{eff})=0,5 µA
Kritischer Strom des 1. Gitters

Recovery time
Temps de rétablissement
Erholungszeit

V_a	=	500	V
I_{kp}	=	100	mA
T_{imp}	=	20	µsec
R_{g1}	=	50	kΩ
V_{g1}	=	-50	V
T_{dion}	=	40	µsec

[1]) At striking point; à l'allumage; bei Zündung

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

V_{ap}		= max. 500 V
$V_{a\ invp}$		= max. 500 V
$-V_{g2}$		= max. 50 V [1]
$-V_{g2}$		= max. 10 V [2]
I_{g2}	(V_a > - 10 V)	= max. 5 mA [3]
R_{g2}		= max. 1 MΩ
$-V_{g1}$		= max. 100 V [1]
$-V_{g1}$		= max. 10 V [2]
I_{g1}	(V_a > - 10 V)	= max. 5 mA [3]
I_{g1p}	(V_a > - 10 V)	= max. 25 mA
I_{g1p}	(V_a < - 10 V)	= max. 30 µA
R_{g1}		= max. 10 MΩ
I_k	(T_{av}= max. 15 sec)	= max. 25 mA
I_{kp}		= max. 100 mA
$I_{k\ surge}$	(T = max. 0,1 sec)	= max. 2 A
V_{kfp}	(k pos.; f neg.)	= max. 100 V
V_{kfp}	(k neg.; f pos.)	= max. 25 V
t_{amb}		= -50 °C/+90°C

[1]) Before conduction
Avant l'allumage
Gelöschte Röhre

[2]) During conduction
Pendant la période de conduction
Gezündete Röhre

[3]) T_{av} = max. 0,02 sec.

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

V_{ap}		= max. 500 V
$V_{a\ invp}$		= max. 500 V
$-V_{g2}$		= max. 50 V [1]
$-V_{g2}$		= max. 10 V [2]
I_{g2}	(V_a > - 10 V)	= max. 5 mA [3]
R_{g2}		= max. 1 MΩ [4]
$-V_{g1}$		= max. 100 V [1]
$-V_{g1}$		= max. 10 V [2]
I_{g1}	(V_a > - 10 V)	= max. 5 mA [3]
I_{g1p}	(V_a > - 10 V)	= max. 25 mA
I_{g1p}	(V_a < - 10 V)	= max. 30 µA
R_{g1}		= max. 10 MΩ [5]
I_k	(T_{av}= max. 15 sec)	= max. 25 mA
I_{kp}		= max. 100 mA
I_k surge	(T = max. 0,1 sec)	= max. 2 A
V_{kfp}	(k pos.; f neg.)	= max. 100 V
V_{kfp}	(k neg.; f pos.)	= max. 25 V
t_{amb}		= -55 °C/+90°C

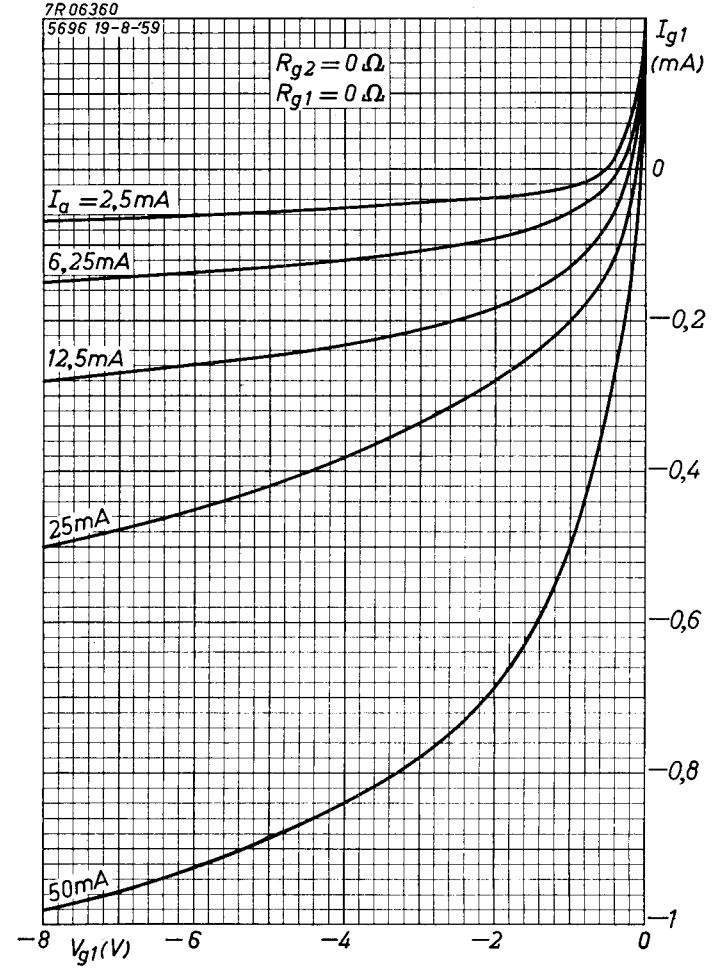
[1]) Before conduction
Avant l'allumage
Gelöschte Röhre

[2]) During conduction
Pendant la période de conduction
Gezündete Röhre

[3]) T_{av} = max. 0,02 sec.

[4]) Grid Nr. 2 should preferably be connected directly to the cathode. However, the max. permissible value of I_{g2} should not be exceeded.
La grille no. 2 devra de préférence être reliée à la cathode. Cependant, la valeur max. admissible de I_{g2} ne doit pas être surpassée
Das 2. Gitter soll vorzugsweise mit der Katode verbunden werden. Der max. zulässige Wert von I_{g2} soll jedoch nicht überschritten werden.

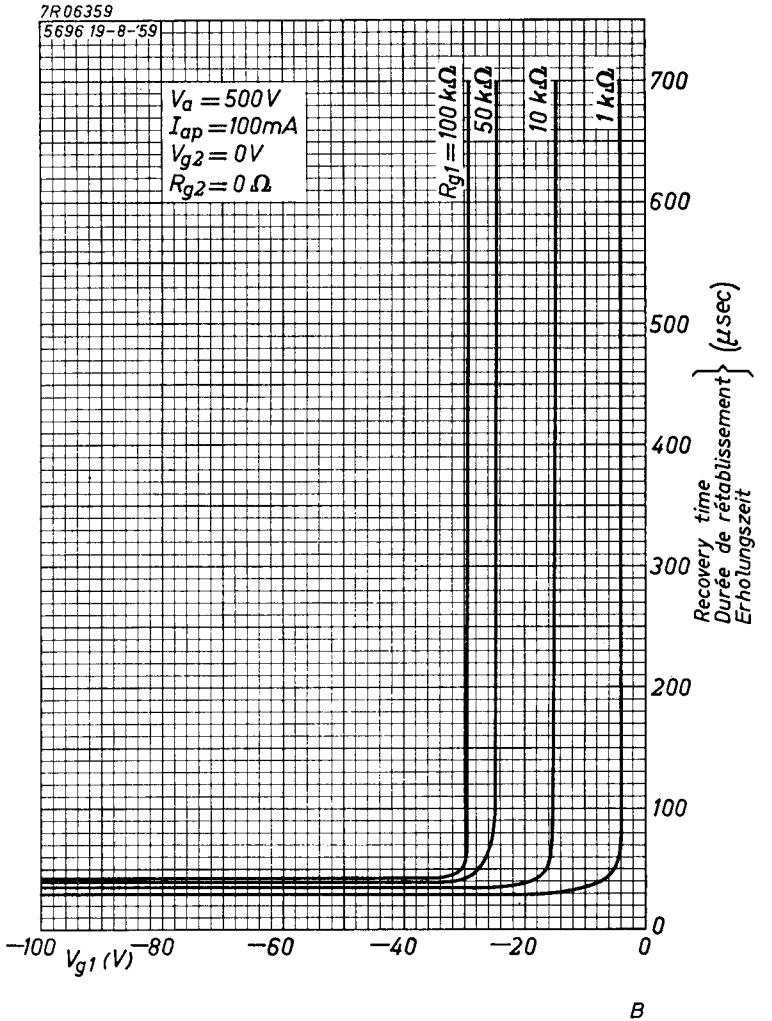
[5]) Recommended value during stand by 100 kΩ
Valeur conseillée dans la position d'attente 100 kΩ
Empfohlener Wert in Bereitschaftsstellung 100 kΩ


7R06360
5696 19-8-59
$R_{g2} = 0\,\Omega$
$R_{g1} = 0\,\Omega$
I_a = 2,5mA
6,25mA
12,5mA
25mA
50mA
I_{g1} (mA)
0
−0,2
−0,4
−0,6
−0,8
−1
−8
V_{g1}(V)
−6
−4
−2
0

9.9.1959

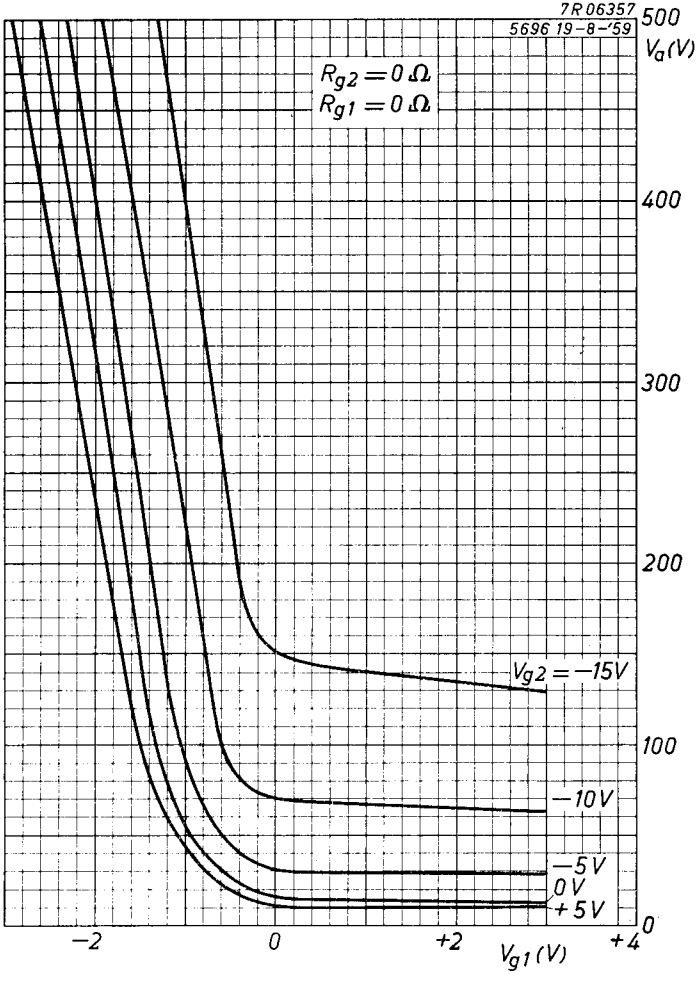
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5696 PHILIPS



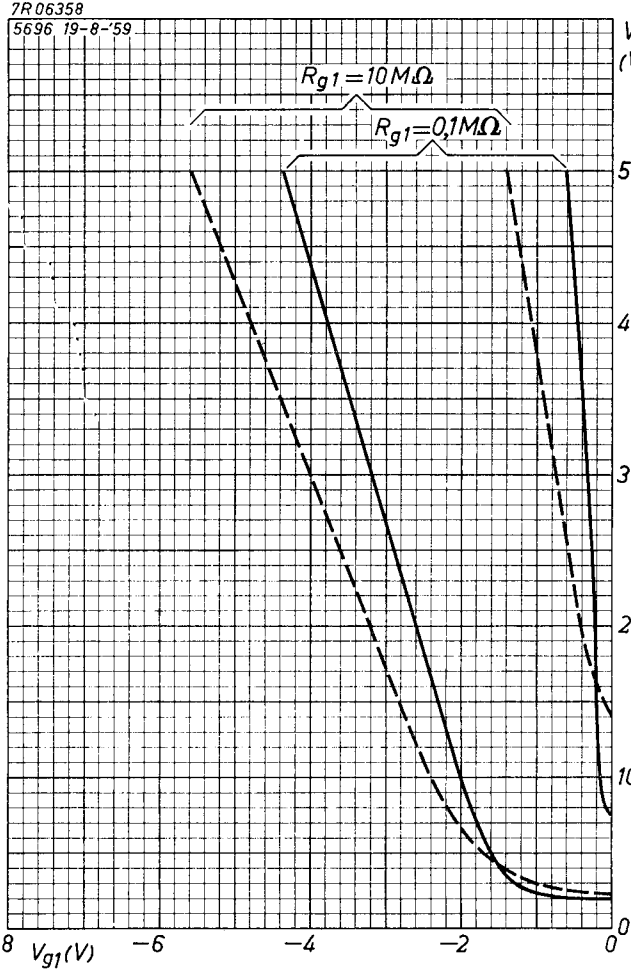
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PHILIPS 5696



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C


7R06358
5696 19-8-'59
$R_{g1}=10\,M\Omega$
$R_{g1}=0{,}1\,M\Omega$
V_a (V)
500
400
300
200
100
0
−8
V_{g1}(V)
−6
−4
−2
0

D

PHILIPS

Electronic Tube

HANDBOOK

5696

page	sheet	date
1	1	1959.02.02
2	1	1959.09.09
3	2	1959.02.02
4	2	1959.09.09
5	A	1959.09.09
6	B	1959.09.09
7	C	1959.09.09
8	D	1959.09.09
9	FP	1999.12.30