

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

$V_f = 6,3 \text{ V} \pm 10 \%$

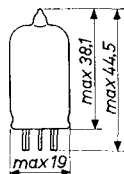
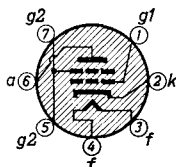
$I_f = 150 \text{ mA}$

$T_w = \text{min. } 10 \text{ sec.}$

Dimensions in mm

Dimensions en mm

Abmessungen in mm



Base, culot, sockel: Miniature

Capacitances

$C_{g1} = 2,0 \text{ pF}$

Capacités

$C_a = 1,5 \text{ pF}$

Kapazitäten

$C_{ag1} = 0,03 \text{ pF}$

Typical characteristics

Caractéristiques types

Kenndaten

$V_{\text{arc}} = 10 \text{ V}$

$V_a/V_{g1} = 250^1)$

$V_a/V_{g2} = 15^1)$

Critical grid No.1 current

Courant de grille No.1 critique ($V_a=350 \text{ V}_{\text{eff}}$) = 0,5 μA

Kritischer Strom des 1. Gitters

Recovery time

$V_{\text{ap}} = 500 \text{ V}$

Temps de rétablissement

$I_{\text{kp}} = 100 \text{ mA}$

Erholungszeit

$T_{\text{imp}} = 20 \text{ } \mu\text{sec}$

$R_{g1} = 1 \text{ k}\Omega$

$V_{g1} = -13 \text{ } \dots \text{ } -100 \text{ V}_{\text{max}}$

$T_{\text{dion}} = 40 \text{ } \dots \text{ } 30 \text{ } \mu\text{sec}$

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

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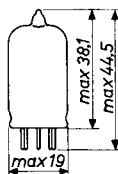
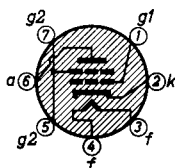
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Typical characteristics

Caractéristiques types

Kenndaten

$V_{arc} = 10 \text{ V}$

$V_a/V_{g1} (R_{g2} = 0 \Omega) = 250^1)$

$V_a/V_{g2} (R_{g1} = 0 \Omega) = 15^1)$

Critical grid No.1 current

Courant de grille No.1 critique ($V_a=350 \text{ V}_{eff}$) = 0,5 μA

Kritischer Strom des 1. Gitters

Recovery time

$V_a = 500 \text{ V}$

Temps de rétablissement

$I_{kp} = 100 \text{ mA}$

Erholungszeit

$T_{imp} = 20 \text{ } \mu\text{sec}$

$R_{g1} = 50 \text{ k}\Omega$

$V_{g1} = -50 \text{ V}$

$T_{dion} = 40 \text{ } \mu\text{sec}$

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

¹⁾ Before conduction
 Avant l'allumage
 Gelöschte Röhre

²⁾ During conduction
 Pendant la période de conduction
 Gezündete Röhre

³⁾ $T_{av} = \text{max. } 0,02 \text{ sec.}$

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 M Ω 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 μ A
R_{g1}		= max. 10 M Ω 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 dépassée.
 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 k Ω
 Valeur conseillée dans la position d'attente 100 k Ω
 Empfohlener Wert in Bereitschaftsstellung 100 k Ω

PHILIPS

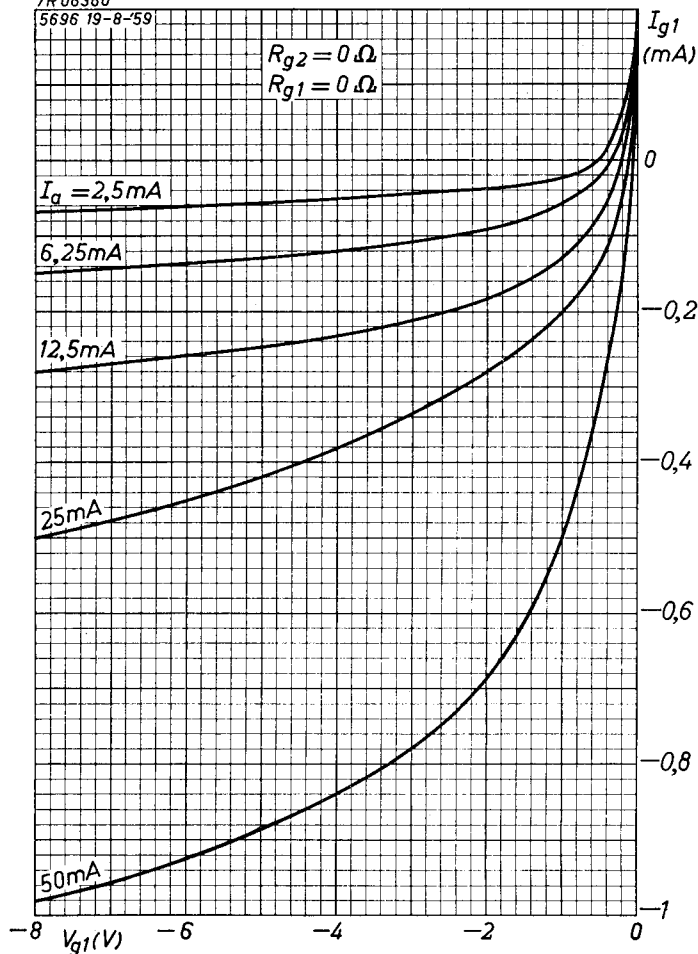
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$$R_{g2} = 0 \Omega$$

$$R_{g1} = 0 \Omega$$



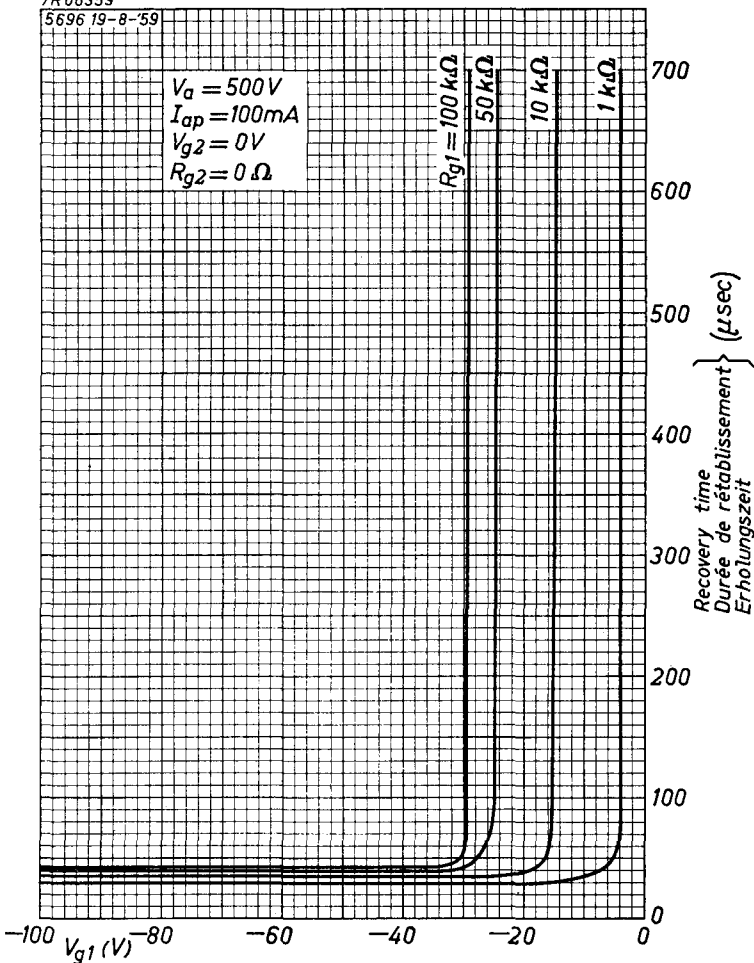
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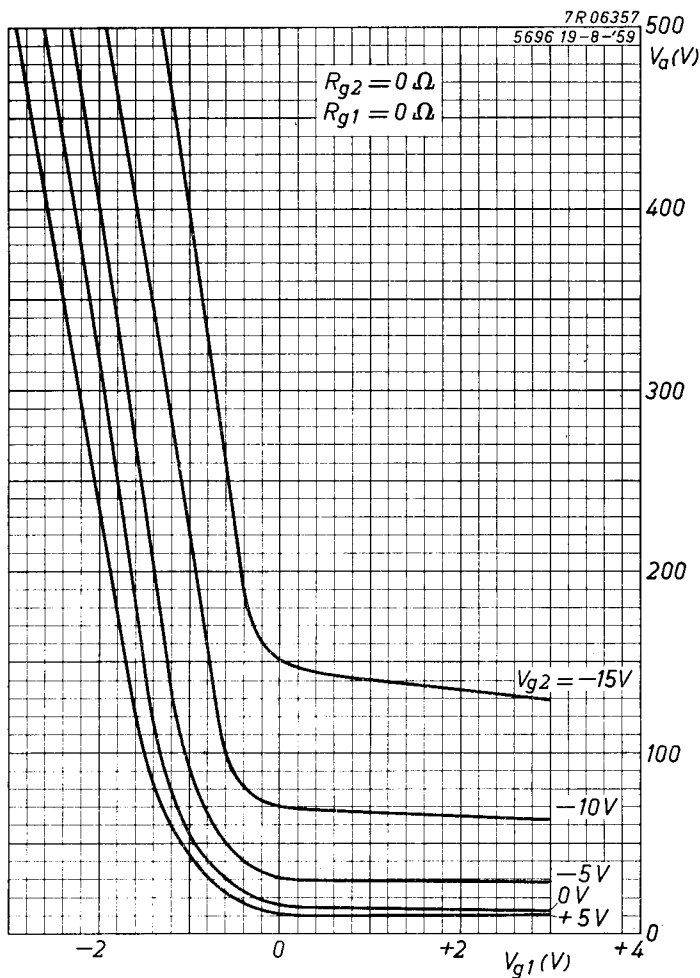
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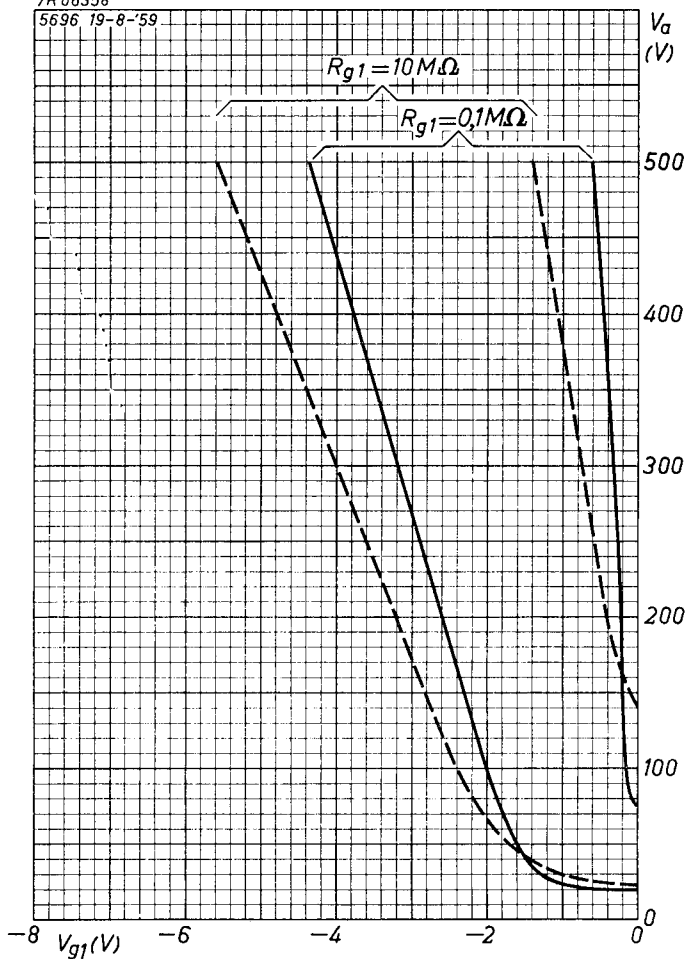
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7	C	1959.09.09
8	D	1959.09.09
9	FP	1999.12.30