

## PHILIPS „MINIWATT“

|                                           |             |   |                           |
|-------------------------------------------|-------------|---|---------------------------|
| Heizspannung . . . . .                    | $V_f$       | = | ca.<br>env. 20 V<br>appr. |
| Tension de chauffage . . . . .            |             |   |                           |
| Filament voltage . . . . .                |             |   |                           |
| Heizstrom . . . . .                       | $I_f$       | = | 0.180 A                   |
| Courant de chauffage . . . . .            |             |   |                           |
| Filament current . . . . .                |             |   |                           |
| Anodenspannung . . . . .                  | $V_a$ max.  | = | 200 V                     |
| Tension anodique . . . . .                |             |   |                           |
| Anode voltage . . . . .                   |             |   |                           |
| Normaler Anodenstrom . . . . .            | $I_a$       | = | 6 mA                      |
| Courant anodique normal . . . . .         |             |   |                           |
| Normal anode current . . . . .            |             |   |                           |
| Neg. Gittervorspannung . . . . .          | $V_g$       | = | ca.<br>env. 3 V<br>appr.  |
| Polarisation négative de grille . . . . . |             |   |                           |
| Negative grid bias . . . . .              |             |   |                           |
| Verstärkungsfaktor . . . . .              | $g(k)$      |   | 33                        |
| Coefficient d'amplification . . . . .     |             |   |                           |
| Amplification factor . . . . .            |             |   |                           |
| Steilheit (max.) . . . . .                | $S_{max.}$  | = | 3,5 mA/V                  |
| Inclinaison (max.) . . . . .              |             |   |                           |
| Slope (max.) . . . . .                    |             |   |                           |
| Steilheit (norm.) . . . . .               | $S_{norm.}$ | = | 2,3 mA V                  |
| Inclinaison (norm.) . . . . .             |             |   |                           |
| Slope (norm.) . . . . .                   |             |   |                           |
| Innerer Widerstand (norm.) . . . . .      | $R_i$       | = | 14000 Ohm                 |
| Résistance intérieure (norm.) . . . . .   |             |   |                           |
| Internal resistance (norm.) . . . . .     |             |   |                           |
| Anoden-Gitterkapazität . . . . .          | $C_{ag}$    | = | 2,5 $\mu\mu\text{F}$      |
| Capacité grille-plaque . . . . .          |             |   |                           |
| Anode-grid capacity . . . . .             |             |   |                           |
| Max. Länge . . . . .                      | $l$         | = | 105 mm                    |
| Longueur max. . . . .                     |             |   |                           |
| Overall length . . . . .                  |             |   |                           |
| Grösster Durchmesser . . . . .            | $d$         | = | 51 mm                     |
| Diamètre max. . . . .                     |             |   |                           |
| Max. diameter . . . . .                   |             |   |                           |
| Sockel . . . . .                          |             | = | 0 35                      |
| Culot . . . . .                           |             |   |                           |
| Base . . . . .                            |             |   |                           |
| Sockelschaltung . . . . .                 |             | = | S VII                     |
| Connexion du culot . . . . .              |             |   |                           |
| Base connection . . . . .                 |             |   |                           |
| Anwendung: Audion                         |             |   |                           |
| Applications: Détecteur                   |             |   |                           |
| Function: Detector                        |             |   |                           |
| N.F.-Verstärkung                          |             |   |                           |
| Amplification b.f.                        |             |   |                           |
| L.F. amplification                        |             |   |                           |

**PHILIPS  
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B 2038**

$I_f = 0,180 \text{ A}$   
 $V_{a\text{max}} = 200 \text{ V}$   
 $I_a = 6 \text{ mA}$   
 $S_{\text{max}} = 3,5 \text{ mA/V}$   
 $S_{\text{norm}} = 2,3 \text{ mA/V}$   
 $g(k) = 33$

24  $I_a \text{ (mA)}$

20

16

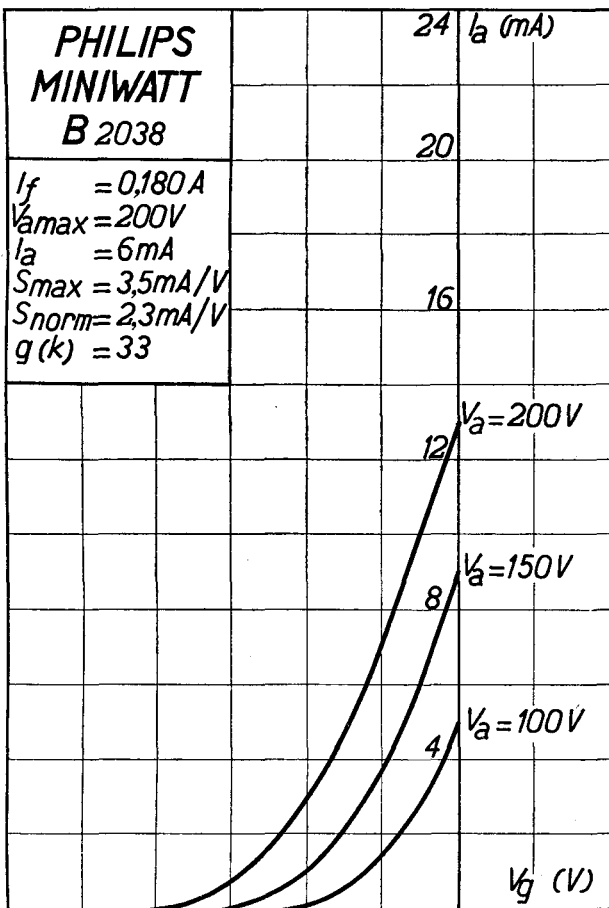
12  $V_a = 200 \text{ V}$

8  $V_a = 150 \text{ V}$

4  $V_a = 100 \text{ V}$

$V_g \text{ (V)}$

-12 -10 -8 -6 -4 -2 0 2 4



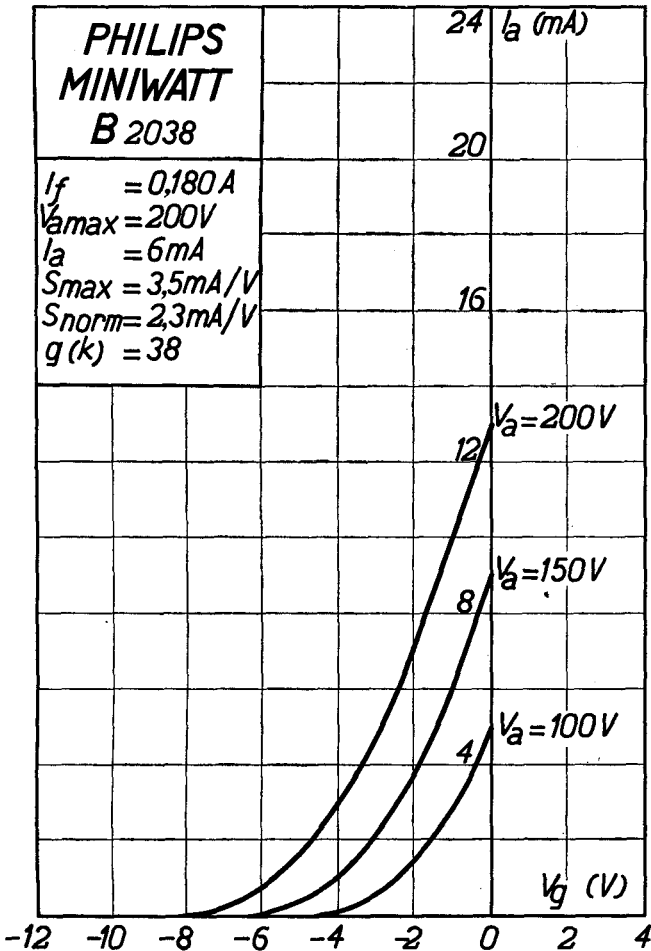
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|                                       |                    |                   |
|---------------------------------------|--------------------|-------------------|
| Heizspannung .....                    |                    | ca.               |
| Tension de chauffage .....            |                    | env. 20 V         |
| Filament voltage .....                | $v_f$              | appr.             |
| Heizstrom .....                       |                    |                   |
| Courant de chauffage .....            |                    | 0,180 A           |
| Filament current .....                | $i_f$              |                   |
| Anodenspannung .....                  |                    |                   |
| Tension anodique .....                |                    | 200 V             |
| Anode voltage .....                   | $v_{a \max.}$      |                   |
| Normaler Anodenstrom .....            |                    |                   |
| Courant anodique normal .....         |                    | 6 mA              |
| Normal anode current .....            | $i_a$              |                   |
| Neg. Gittervorspannung .....          |                    | ca.               |
| Polarisation négative de grille ..... |                    | env. 3 V          |
| Negative grid bias .....              | $v_g$              | appr.             |
| Verstärkungsfaktor .....              |                    |                   |
| Coefficient d'amplification .....     | $g(k)$             | 38                |
| Amplification factor .....            |                    |                   |
| Steilheit (max.) .....                |                    |                   |
| Inclinaison (max.) .....              | $S_{\max.}$        | 3,5 mA/V          |
| Slope (max.) .....                    |                    |                   |
| Steilheit (norm.) .....               |                    |                   |
| Inclinaison (norm.) .....             | $S_{\text{norm.}}$ | 2,3 mA/V          |
| Slope (norm.) .....                   |                    |                   |
| Innerer Widerstand (norm.) .....      |                    |                   |
| Résistance intérieure (norm.) .....   | $R_i$              | 16000 Ohm         |
| Internal resistance (norm.) .....     |                    |                   |
| Anoden-Gitterkapazität .....          |                    |                   |
| Capacité grille-plaque .....          | $C_{ag}$           | 2,5 $\mu\text{F}$ |
| Anode-grid capacity .....             |                    |                   |
| Max. Länge .....                      |                    |                   |
| Longueur max. ....                    | $l$                | 105 mm            |
| Overall length .....                  |                    |                   |
| Grösster Durchmesser .....            |                    |                   |
| Diamètre max. ....                    | $d$                | 51 mm             |
| Max. diameter .....                   |                    |                   |
| Sockel .....                          |                    |                   |
| Culot .....                           |                    | 0,35              |
| Base .....                            |                    |                   |
| Sockelschaltung .....                 |                    |                   |
| Connexion du culot .....              |                    | S VII             |
| Base connection .....                 |                    |                   |
| Anwendung: Audion                     |                    |                   |
| Applications: Détecteur               |                    |                   |
| Function: Detector                    |                    |                   |

N.F.-Verstärkung  
Amplification b.f.  
L.F. amplification

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$I_f = 0,180 A$   
 $V_{a\max} = 200V$   
 $I_a = 6mA$   
 $S_{\max} = 3,5mA/V$   
 $S_{\text{norm}} = 2,3mA/V$   
 $g(k) = 38$



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|                               |          |         |
|-------------------------------|----------|---------|
| Max. Anodenspannung . . . . . | $V_{ao}$ | = 250 V |
| Tension anodique max. . . . . | $V_{aR}$ | = 250 V |
| Max. anode voltage . . . . .  | $V_{aL}$ | = 200 V |

|                                   |       |         |
|-----------------------------------|-------|---------|
| Max. Anodenbelastung . . . . .    | $W_a$ | = 1,5 W |
| Dissipation anodique max. . . . . |       |         |
| Max. anode dissipation . . . . .  |       |         |

|                                 |       |         |
|---------------------------------|-------|---------|
| Max. Kathodenstrom . . . . .    | $I_c$ | = 15 mA |
| Courant cathodique max. . . . . |       |         |
| Max. cathode current . . . . .  |       |         |

|                                          |          |          |
|------------------------------------------|----------|----------|
| Gitterstrom-Einsatzpunkt . . . . .       | $V_{gi}$ | = -1,3 V |
| Point de commenc. du cour. de grille     |          |          |
| Starting point of grid current . . . . . |          |          |

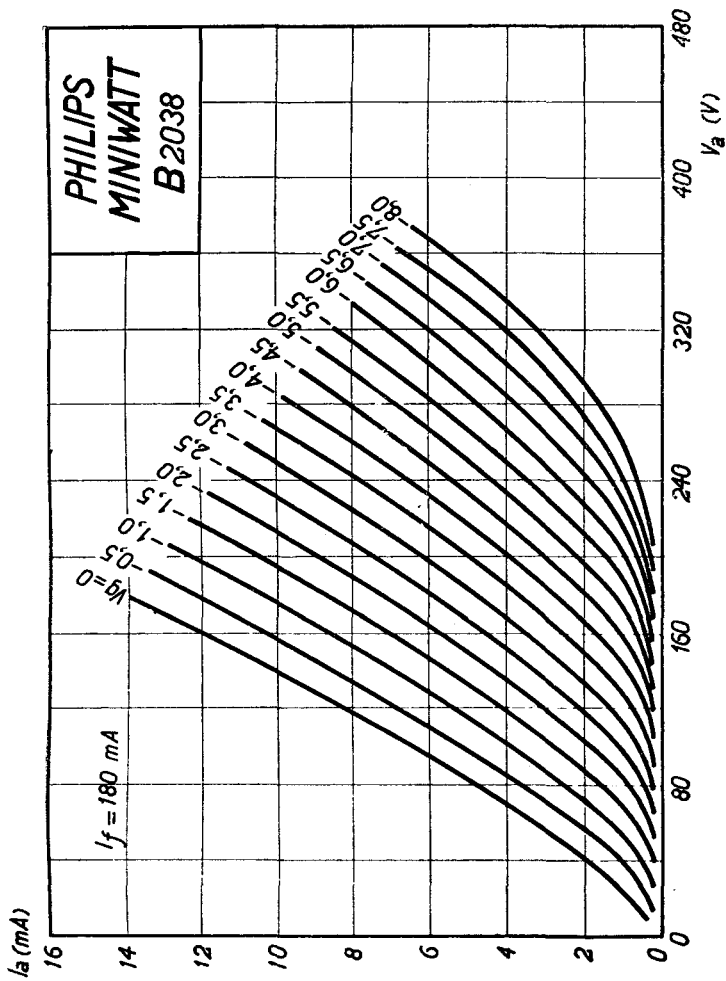
|                                           |          |              |
|-------------------------------------------|----------|--------------|
| Max. Widerstand im Gitterkreis . . . . .  | $R_{g1}$ | = 2,0 M. Ohm |
| Résistance max. dans le circuit de grille |          | = 1,0 M. Ohm |
| Max. resistance in grid circuit . . . . . | $R_{g2}$ |              |

|                                         |          |           |
|-----------------------------------------|----------|-----------|
| Max. Spann. zwischen Faden und Kath.    | $V_{fc}$ | = 100 V*) |
| Tension max. entre filament et cathode  |          |           |
| Max. voltage between filam. and cathode |          |           |

|                                         |          |             |
|-----------------------------------------|----------|-------------|
| Max. Widerst. zwischen Faden und Kath.  | $R_{fc}$ | = 20000 Ohm |
| Résist. max. entre filament et cathode  |          |             |
| Max. resist. betw. filament and cathode |          |             |

|                       |          |                          |
|-----------------------|----------|--------------------------|
| Kapazitäten . . . . . | $C_{ag}$ | = 1,1-3 $\mu\mu\text{F}$ |
| Capacités . . . . .   | $C_{ak}$ | = 5,0 $\mu\mu\text{F}$   |
| Capacities . . . . .  | $C_{gk}$ | = 5,6 $\mu\mu\text{F}$   |

\*) Siehe Erläuterungen  
 Voir explications  
 See explanation



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|                                           |          |                        |
|-------------------------------------------|----------|------------------------|
| Max. Anodenspannung .....                 | $V^{ao}$ | = 250 V                |
| Tension anodique max. ....                | $V^{aR}$ | = 250 V                |
| Max. anode voltage .....                  | $V^{aL}$ | = 200 V                |
| Max. Anodenbelastung .....                |          |                        |
| Dissipation anodique max. ....            | $W_a$    | = 1,5 W                |
| Max. anode dissipation .....              |          |                        |
| Max. Kathodenstrom .....                  |          |                        |
| Courant cathodique max. ....              | $I_c$    | = 15 mA                |
| Max. cathode current .....                |          |                        |
| Gitterstrom-Einsatzpunkt .....            |          |                        |
| Point de commenc. du courant de grille    | $V_{gi}$ | = -1,3 V               |
| Starting point of grid current .....      |          |                        |
| Max. Widerstand im Gitterkreis .....      | $R_{g1}$ | = 2,0 M. Ohm           |
| Résistance max. dans le circuit de grille | $R_{g2}$ | = 1,0 M. Ohm           |
| Max. resistance in grid circuit .....     |          |                        |
| Max. Spann. zwischen Faden und Kath.      |          |                        |
| Tension max. entre filament et cathode    | $V_{fc}$ | = 100 V*)              |
| Max. voltage between filam. and cathode   |          |                        |
| Max. Widerst. zwischen Faden und Kath.    |          |                        |
| Résist. max. entre filament et cathode    | $R_{fc}$ | = 20000 Ohm            |
| Max. resist. betw. filament and cathode   |          |                        |
| Kapazitäten .....                         | $C_{ag}$ | = 2,5 $\mu\mu\text{F}$ |
| Capacités .....                           | $C_{ak}$ | = 5,4 $\mu\mu\text{F}$ |
| Capacities .....                          | $C_{gk}$ | = 6,3 $\mu\mu\text{F}$ |

\*) Siehe Erläuterungen  
Voir explications  
See explanation

