MINIATURE DIODE PENTODE

Short grid-base pentode, particularly suitable for A.F. voltage amplification, combined with a single diode.

**FILAMENT**

This valve is suitable for D.C. operation only.

\[
\begin{align*}
V_f & = 1.4 \text{ V} \\
I_f & = 0.05 \text{ A}
\end{align*}
\]

**CAPACITANCES**

\[
\begin{align*}
C_a-g1 & = 0.2 \mu\text{F} \\
C_{in} & = 2.2 \mu\text{F} \\
C_{out} & = 2.4 \mu\text{F}
\end{align*}
\]

**OPERATING CONDITIONS AS R.F. OR I.F. AMPLIFIER**

\[
\begin{align*}
V_a & = 67.5 \text{ V} \\
V_{g2} & = 67.5 \text{ V} \\
V_{gl} & = 0 \text{ V} \\
I_a & = 1.6 \text{ mA} \\
I_{g2} & = 0.4 \text{ mA} \\
S_m & = 625 \mu\text{A/V} \\
R_a & = 0.6 \text{ M.ohms approx.}
\end{align*}
\]

**OPERATING CONDITIONS AS RESISTANCE-COUPLED A.F. AMPLIFIER**

\[
\begin{align*}
V_a & = 45 \quad 67.5 \quad 90 \text{ V} \\
V_{g2} & = 45 \quad 67.5 \quad 90 \text{ V} \\
V_{gl} & = 0 \quad 0 \quad 0 \text{ V} \\
R_a & = 1.0 \quad 1.0 \quad 1.0 \text{ M.ohm} \\
R_{g2} & = 3.0 \quad 3.0 \quad 3.0 \text{ M.ohms} \\
C_{g2-k} & = 0.1 \quad 0.1 \quad 0.1 \mu\text{F} \\
R_{gl} & = 10 \quad 10 \quad 10 \text{ M.ohms} \\
V_{out} & = 30 \quad 40 \quad 50 \text{ approx.}
\end{align*}
\]

**DIODE SECTION**

The diode anode is located at the negative end of the filament.
MINIATURE DIODE PENTODE

Short grid-base pentode, particularly suitable for A.F. voltage amplification, combined with a single diode.

LIMITING VALUES

- $V_a\text{ max.}$: 90 V
- $V_{g2}\text{ max.}$: 90 V
- $V_{g1}\text{ max.}$: 0 V
- $I_k\text{ max.}$: 4.5 mA

ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS

DIMENSIONS

B7G BASE

19 mm
55 mm Max.
MINIATURE DIODE PENTODE

Short grid-base pentode, particularly suitable for A.F. voltage amplification, combined with a single diode.
MINIATURE DIODE PENTODE

Short grid-base pentode, particularly suitable for A.F. voltage amplification, combined with a single diode.

$V_F = 1.4 \text{ V}$
$V_a = 67.5 \text{ V}$
$V_{ge} = 67.5 \text{ V}$
MINIATURE DIODE PENTODE

Short grid-base pentode, particularly suitable for A.F. voltage amplification, combined with a single diode.

\[ V_t = 1.4\,\text{V} \]
\[ V_a = 67.5\,\text{V} \]
\[ V_g = 0\,\text{V} \]
MINIATURE DIODE PENTODE

Short grid-base pentode, particularly suitable for A.F. voltage amplification, combined with a single diode.