SUB MINIATURE
HIGH SLOPE PENTODE

High slope pentode primarily intended for industrial applications.

HEATER

\[ V_h \]
\[ I_h \]

6.3 V
200 mA

MOUNTING POSITION

Any

Note—Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1.5mm from the seal.

COOLING

In operation this valve may become very hot and, therefore, in the interests of satisfactory life, it should be adequately cooled. A suitable method is to mount the valve in a metal clip which conducts the heat away to the chassis and should result in a bulb temperature of 100°C.

CAPACITANCES

\[ C_{a-g1} \]
\[ C_{11} \]
\[ C_{out} \]

Shielded

\[ < 0.15 \]
4.5
5.0

Unshielded

\[ < 0.2 \]
5.0 pF
3.0 pF

CHARACTERISTICS

\[ V_h \]
\[ V_g3 \]
\[ V_g2 \]
\[ I_h \]
\[ I_g2 \]
\[ V_{g1} \]
\[ g_m \]
\[ r_a \]
\[ P_{g1-g2} \]
\[ V_{g3,\text{max.}} \text{ (for } I_h = 100 \mu A) \]

100 V
0 V
100 V
7.5 mA
2.5 mA
-2.0 V
5.5 mA/V
250 kΩ
28
-60 V

Mullard
LIMITING VALUES

\[ V_{a(b)} \text{ max.} \] 300 V
\[ V_a \text{ max.} \] 175 V
\[ V_{g2(b)} \text{ max.} \] 300 V
\[ V_{g2} \text{ max.} \] 175 V
\[ I_k \text{ max.} \] 14 mA
\[ P_a \text{ max.} \] 1.5 W
\[ P_{g2} \text{ max.} \] 1.0 W
\[ P_{a+g2} \text{ max.} \] 2.0 W
\[ V_{g1} \text{ max.} (I_{g1} = +0.3 \mu A) \] 1.3 V
\[ R_{g1-k} \text{ max.} \] 500 k\Omega
\[ R_{h-k} \text{ max.} \] 20 k\Omega
\[ V_{h-k} \text{ max.} \] 100 V

All dimensions in mm