

# SUBMINIATURE VARIABLE-MU R.F. PENTODE

# EF731

Subminiature variable-mu r.f. pentode for use as a controlled r.f. amplifier.

## HEATER

|       |     |    |
|-------|-----|----|
| $V_h$ | 6.3 | V  |
| $I_h$ | 150 | 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 to obtain 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 a suitable heat sink.

## CAPACITANCES

|            | Shielded | Unshielded |
|------------|----------|------------|
| $C_{a-g1}$ | <0.015   | <0.03 pF   |
| $C_{1n}$   | 4.3      | 4.0 pF     |
| $C_{out}$  | 3.4      | 1.9 pF     |

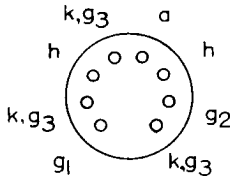
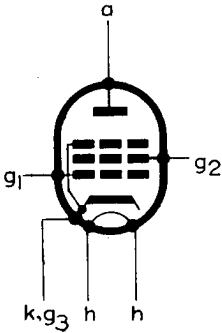
## CHARACTERISTICS

|                       |      |            |
|-----------------------|------|------------|
| $V_a$                 | 100  | V          |
| $V_{g2}$              | 100  | V          |
| $V_{g1}$              | -1.1 | V          |
| $I_a$                 | 7.2  | mA         |
| $I_{g2}$              | 2.2  | mA         |
| $g_m$                 | 4.5  | mA/V       |
| $r_a$                 | 260  | k $\Omega$ |
| $g_m (V_{g1} = -14V)$ | 25   | $\mu A/V$  |

## LIMITING VALUES (absolute ratings)

|                  |      |    |
|------------------|------|----|
| $V_{a(b)}$ max.  | 330  | V  |
| $V_a$ max.       | 165  | V  |
| $p_a$ max.       | 1.1  | W  |
| $V_{g2(b)}$ max. | 310  | V  |
| $V_{g2}$ max.    | 155  | V  |
| $p_{g2}$ max.    | 550  | mW |
| $-V_{g1}$ max.   | 55   | V  |
| $I_k$ max.       | 16.5 | mA |
| $V_{h-k}$ max.   | 200  | V  |

5494



B8D/F Base

All dimensions in mm

