

*Indirectly heated disc seal triode, with internal feedback, primarily intended for use as a common grid earthed, anode, concentric line oscillator.*

This data should be read in conjunction with GENERAL OPERATIONAL RECOMMENDATIONS — TRANSMITTING VALVES included in this volume of the handbook.

## HEATER

|                 |     |    |
|-----------------|-----|----|
| $V_h$           | 6.3 | V  |
| $I_h$ (approx.) | 400 | mA |

## MOUNTING POSITION

Any

## CAPACITANCES

|           |       |    |
|-----------|-------|----|
| $C_{a-g}$ | 1.4   | pF |
| $C_{a-k}$ | 0.045 | pF |
| $C_{g-k}$ | 1.7   | pF |

## CHARACTERISTICS (measured at $V_a = 250V$ , $I_a = 20mA$ , $V_g = -3.5V$ )

|       |     |      |
|-------|-----|------|
| $g_m$ | 6.0 | mA/V |
| $\mu$ | 30  |      |

## COOLING

|                              |     |    |
|------------------------------|-----|----|
| $T_{\text{anode seal max.}}$ | 140 | °C |
|------------------------------|-----|----|

In order to limit the anode seal temperature and also to limit the rate of change of anode seal temperature, it is necessary that the mass of metal in close thermal contact with the anode disc shall not be less than 60g (2oz) of brass or its thermal equivalent.

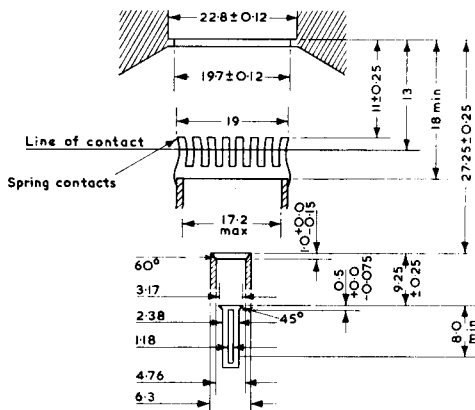
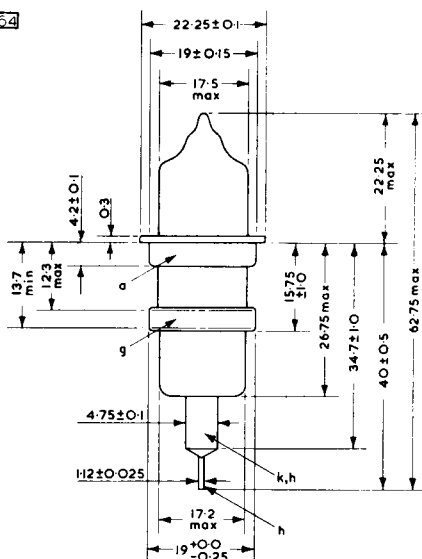
## LIMITING VALUES

|                  |     |    |
|------------------|-----|----|
| $V_a$ max.       | 350 | V  |
| $p_a$ max.       | 10  | W  |
| $I_a$ max.       | 50  | mA |
| $i_{a(pk)}$ max. | 150 | mA |
| $p_g$ max.       | 500 | mW |

## DISC SEAL TRIODE

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**Note:**

Eccentricity of grid, cathode and heater contacts shall not exceed 0.375

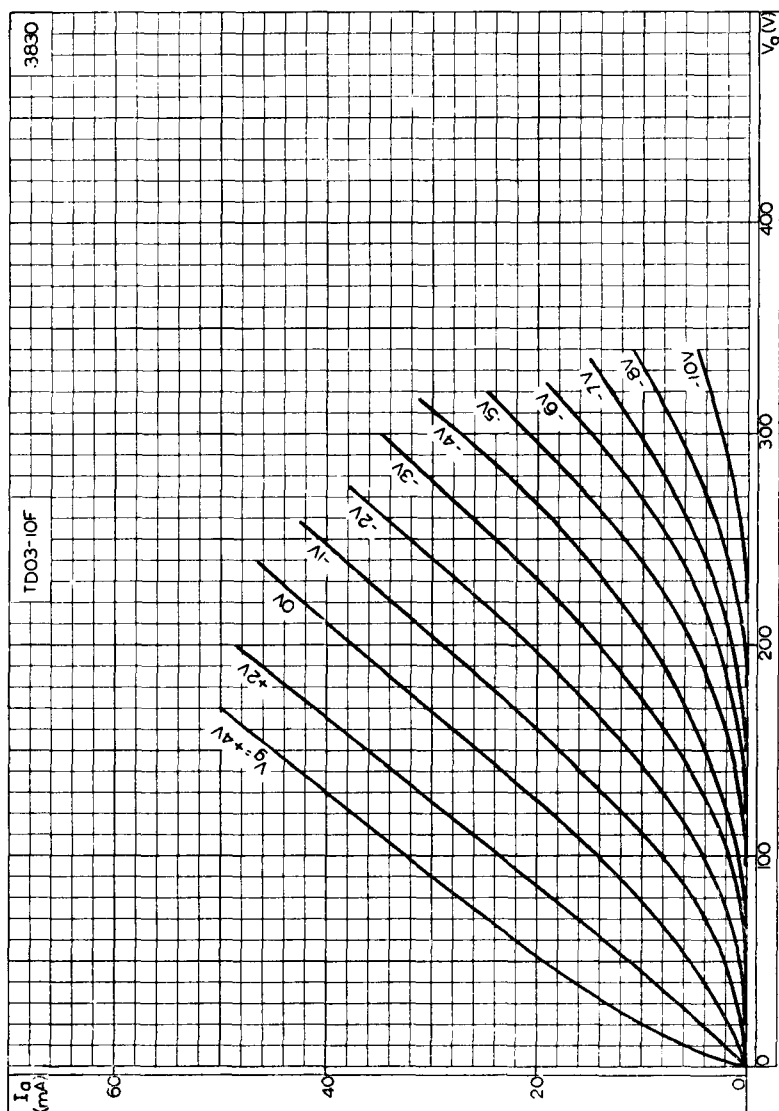
All dimensions in mm



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# TD03-10F

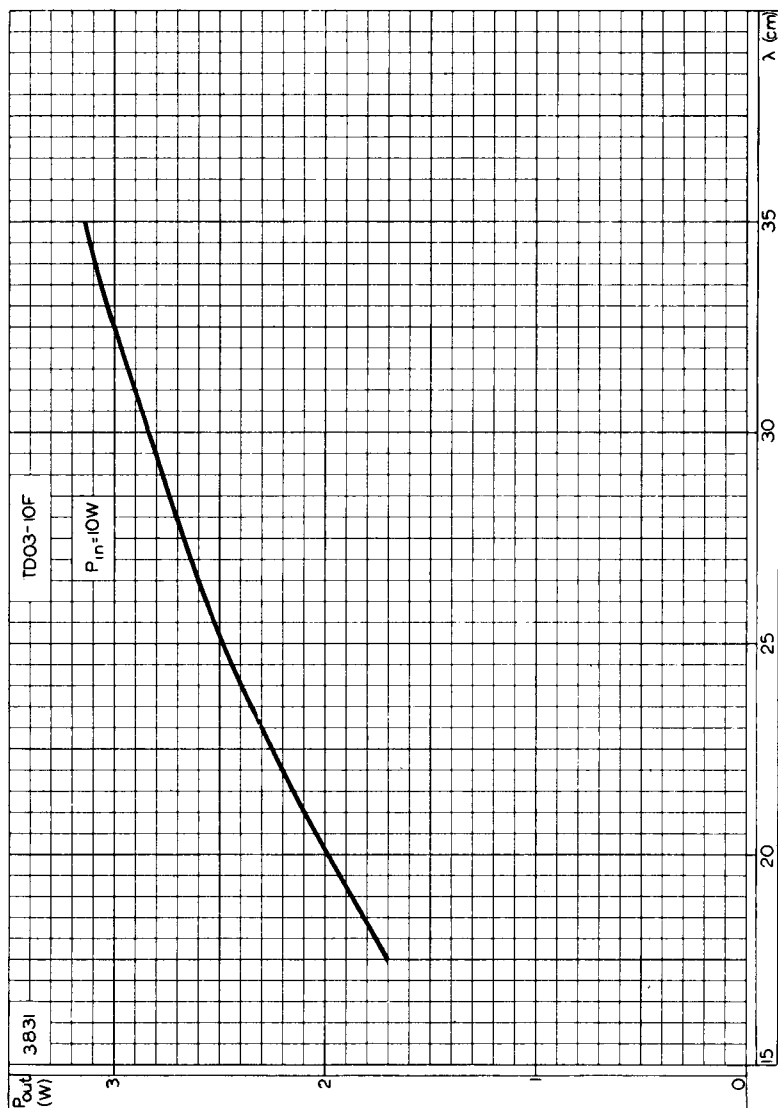


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE

# TD03-10F

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POWER OUTPUT PLOTTED AGAINST WAVELENGTH.