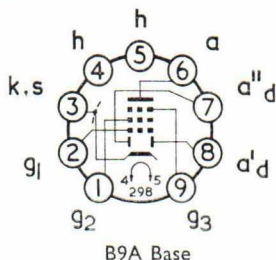


## DOUBLE DIODE VARIABLE-MU H.F. PENTODE



|                |       |     |   |
|----------------|-------|-----|---|
| Heater Voltage | $V_h$ | 6.3 | V |
| Heater Current | $I_h$ | 0.3 | A |

### RATINGS

|                                    |                 |     |    |
|------------------------------------|-----------------|-----|----|
| Maximum Anode Dissipation          | $P_a(\max)$     | 1.5 | W  |
| Maximum Screen Grid Dissipation    | $P_{g2}(\max)$  | 0.3 | W  |
| Maximum Anode Supply Voltage       | $V_{a(b)\max}$  | 500 | V  |
| Maximum Anode Voltage              | $V_a(\max)$     | 300 | V  |
| Maximum Screen Grid Supply Voltage | $V_{g2(b)\max}$ | 500 | V  |
| Maximum Screen Grid Voltage        | $V_{g2}(\max)$  | 300 | V  |
| Maximum Heater to Cathode Voltage  | $V_{h-k}(\max)$ | 100 | V  |
| Maximum Cathode Current            | $I_k(\max)$     | 10  | mA |
| Maximum Diode Anode Current        | $I_{a(d)\max}$  | 0.8 | mA |

### INTER-ELECTRODE CAPACITANCES\*

|                               |               |         |    |
|-------------------------------|---------------|---------|----|
| Pentode Input                 | $C_{in}(p)$   | 4.2     | pF |
| Pentode Output                | $C_{out}(p)$  | 4.9     | pF |
| Control Grid to Pentode Anode | $C_{g1-a(p)}$ | <0.0025 | pF |
| Anode' Diode to Cathode       | $C_{a'd-k}$   | 2.2     | pF |
| Anode" Diode to Cathode       | $C_{a''d-k}$  | 2.35    | pF |
| Anode' Diode to Control Grid  | $C_{a'd-g1}$  | <0.0008 | pF |
| Anode" Diode to Control Grid  | $C_{a''d-g1}$ | <0.001  | pF |

\* Measured without an external shield.

### CHARACTERISTICS

|                                                          |               |      |            |
|----------------------------------------------------------|---------------|------|------------|
| Anode Voltage                                            | $V_a$         | 250  | V          |
| Screen Grid Voltage                                      | $V_{g2}$      | 85   | V          |
| Control Grid Voltage                                     | $V_{g1}$      | -2.0 | V          |
| Anode Current                                            | $I_a$         | 5.0  | mA         |
| Screen Grid Current                                      | $I_{g2}$      | 1.75 | mA         |
| Mutual Conductance                                       | $g_m$         | 2.2  | mA/V       |
| Valve Anode Resistance ( $\partial V_a / \partial I_a$ ) | $r_a$         | 1.5  | M $\Omega$ |
| Inner Amplification Factor                               | $\mu_{g1-g2}$ | 18   |            |

### TYPICAL OPERATION—As a Resistance Coupled A.F. Amplifier

|                                          |             |      |     |     |     |            |
|------------------------------------------|-------------|------|-----|-----|-----|------------|
| Anode Supply Voltage                     | $V_{a(b)}$  | 250  | 250 | 250 | 250 | V          |
| Screen Grid Supply Voltage               | $V_{g2(b)}$ | 250  | 250 | 250 | 250 | V          |
| Anode Resistor                           | $R_a$       | 220  | 100 | 220 | 100 | k $\Omega$ |
| Series Screen Grid Resistor              | $R_{g2}$    | 680  | 270 | 680 | 270 | k $\Omega$ |
| Control Grid Resistor                    | $R_{g1}$    | 1.0  | 1.0 | 10  | 10  | M $\Omega$ |
| Control Grid Resistor of following stage |             | 680  | 330 | 680 | 330 | k $\Omega$ |
| Cathode Bias Resistor                    | $R_k$       | 1200 | 560 | 0   | 0   | $\Omega$   |
| Stage Gain                               |             | 150  | 100 | 185 | 125 |            |