

ELECTRONIC TUBE REFERENCE

13D9

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA  
2 SECTIONS  
CONSTRUCTION  
TRIODE-TRIODE

Brimar 13D9 B9A dual triode with two similar sections, 6.3 V/0.3 A parallel or 12.6 V/0.15 A series heater.

GENERAL CHARACTERISTICS

|                     |                   |                      |                |
|---------------------|-------------------|----------------------|----------------|
| BASE DESIGNATION    | B9A               | BASE PINS            | 9              |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | 6.3 V / 300 mA |
| HEATING             | Indirect          | SERIES OPERATION     | Capable        |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar        |

SECTION RATINGS

|                                                                                                                                                                                                                                              |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| SECTION1 Triode                                                                                                                                                                                                                              |          |
| PLATE RESISTANCE                                                                                                                                                                                                                             | 8900 Ω   |
| TRANSCONDUCTANCE                                                                                                                                                                                                                             | 0.0057 S |
| AMPLIFICATION FACTOR                                                                                                                                                                                                                         | 50       |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                                                                        | 300 V    |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                                                                    | 2.5 W    |
| MAXIMUM CATHODE CURRENT                                                                                                                                                                                                                      | 20 mA    |
| Brimar Aug 1965: zero-current anode voltage max 550 V; typical Va 200 V, Vg 0 V, cathode resistor 200 ohms, Ia 10 mA; input 2.3 pF, output 0.5 pF, anode-grid 1.6 pF; anode-to-anode <0.33 pF. Heater-cathode maximum OCR uncertain (~90 V). |          |

| SECTION2 Triode                                                                                                                                                                                                                                                                                                   |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| PLATE RESISTANCE                                                                                                                                                                                                                                                                                                  | 8900 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                                                                                                                                                                                                                  | 0.0057 S      |
| AMPLIFICATION FACTOR                                                                                                                                                                                                                                                                                              | 50            |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                                                                                                                                             | 300 V         |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                                                                                                                                         | 2.5 W         |
| MAXIMUM CATHODE CURRENT                                                                                                                                                                                                                                                                                           | 20 mA         |
| <i>Brimar Aug 1965: zero-current anode voltage max 550 V; typical <math>V_a</math> 200 V, <math>V_g</math> 0 V, cathode resistor 200 ohms, <math>I_a</math> 10 mA; input 2.3 pF, output 0.5 pF, anode-grid 1.6 pF; anode-to-anode &lt;0.33 pF. Heater-cathode maximum OCR uncertain (<math>\sim 90</math> V).</i> |               |

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 9999 Mixed 2000

Published test conditions and operating points. Values on this page are preserved as reported by this source.

9999 MIXED 2000

## Section 1 · Triode

| OTHER                |                 |                                                               |
|----------------------|-----------------|---------------------------------------------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE                                              |
| Plate voltage        | 200 V           | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |
| Control-grid voltage | 0 V             | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |
| Plate current        | 10 mA           | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |

| CHARACTERISTIC   |                 |                                                               |
|------------------|-----------------|---------------------------------------------------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE                                              |
| Plate resistance | 8900 Ω          | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |
| Transconductance | 5700 μS         | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |
| Plate Resistance | 8900 Ω          | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |

9999 MIXED 2000

## Section 2 · Triode

| OTHER                |                 |                                                               |
|----------------------|-----------------|---------------------------------------------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE                                              |
| Plate voltage        | 200 V           | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |
| Control-grid voltage | 0 V             | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |
| Plate current        | 10 mA           | Brimar 13D9; Va=200 V, Vg=0 V, Rk=200 Ω, heater 12.6 V series |

| CHARACTERISTIC   |                                 |                                                                                |
|------------------|---------------------------------|--------------------------------------------------------------------------------|
| PARAMETER        | PUBLISHED VALUE                 | CONDITION / NOTE                                                               |
| Plate resistance | <b>8900 <math>\Omega</math></b> | Brimar 13D9; $V_a=200$ V, $V_g=0$ V, $R_k=200$ $\Omega$ , heater 12.6 V series |
| Transconductance | <b>5700 <math>\mu S</math></b>  | Brimar 13D9; $V_a=200$ V, $V_g=0$ V, $R_k=200$ $\Omega$ , heater 12.6 V series |
| Plate Resistance | <b>8900 <math>\Omega</math></b> | Brimar 13D9; $V_a=200$ V, $V_g=0$ V, $R_k=200$ $\Omega$ , heater 12.6 V series |

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