



ELECTRONIC TUBE REFERENCE

13D8

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Brimar 13D8 low-mu, balanced dual audio-frequency triode, electrically similar to 12AU7, with 6.3 V parallel or 12.6 V 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	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.75 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Brimar March 1966. Each section: maximum anode supply 550 V; maximum heater-cathode 100 V DC and 200 V peak. Typical V_a 250 V, V_g -8.5 V, I_a 10.5 mA. Input capacitance 1.6 pF; output capacitance 0.5 pF; grid-anode capacitance 1.5 pF (without external shield).</i>	

SECTION2 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.75 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Brimar March 1966. Each section: maximum anode supply 550 V; maximum heater-cathode 100 V DC and 200 V peak. Typical V_a 250 V, V_g -8.5 V, I_a 10.5 mA. Input capacitance 1.6 pF; output capacitance 0.35 pF; grid-anode capacitance 1.5 pF (without external shield).</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.

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Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Typical Va; Vg=-8.5 V; heater 12.6 V series
Control-grid voltage	-8.5 V	Typical Va=250 V
Plate current	10.5 mA	Typical Va=250 V, Vg=-8.5 V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7700 Ω	Typical Va=250 V
Transconductance	2200 μS	Typical Va=250 V
Plate Resistance	7700 Ω	Typical Va=250 V

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Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Typical Va; Vg=-8.5 V; heater 12.6 V series
Control-grid voltage	-8.5 V	Typical Va=250 V
Plate current	10.5 mA	Typical Va=250 V, Vg=-8.5 V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7700 Ω	Typical Va=250 V
Transconductance	2200 μS	Typical Va=250 V
Plate Resistance	7700 Ω	Typical Va=250 V

TUBE TINKER

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