



ELECTRONIC TUBE REFERENCE

6336A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE

Very-high-current dual power triode for series voltage regulation and power control. Each section combines exceptionally low plate resistance, high transconductance, and roughly 30 W plate dissipation for heavy-duty pass-tube service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	200 Ω
TRANSCONDUCTANCE	0.016 S
AMPLIFICATION FACTOR	2.7
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	400 mA
Representative electrical row for repeated identical physical sections.	

Very-high-current dual power triode for series voltage regulation and power-control applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal or representative value
Heater or filament current	5 A	Published nominal or representative value
Transconductance	13500 μ S	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	30 W	Published maximum rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	5 A	Nominal
Plate voltage	0 V	Published operating table; OperatingPoint1
Plate voltage	400 V	Published operating table; OperatingPoint2
Plate current per section maximum	400 mA	PerSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum altitude at full ratings	10000 ft	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	11 uS	Published operating table; OperatingPoint1
Transconductance	0 uS	Published operating table; OperatingPoint2
Transconductance	16 uS	Published operating table; OperatingPoint3
Transconductance	0 uS	Published operating table; OperatingPoint4



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	5 A	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application summary	Long-life ruggedized twin power triode for regulator pass service.	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	—
Plate current per section	200 mA	—
Transconductance	40000 uS	—
Maximum shock	720 G	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-cathode voltage minimum	-300 V	—
Heater-cathode voltage maximum	300 V	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	5 A	Nominal
Maximum Plate Voltage	400 V	—
Maximum Plate Dissipation	30 W	—
Maximum Cathode Current	400 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	13500 μ S	Typical
Amplification Factor	2.7	Typical


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	5 A	Nominal
Maximum plate voltage	400 V	Promoted published value
Maximum plate dissipation	30 W	Promoted published value
Maximum cathode current	400 mA	Promoted published value
Voltage (AC or DC)	0.6 V	Heater Characteristics and Ratings (Absolute-Maximum Values):
Current at heater volts =	0 V	Heater Characteristics and Ratings (Absolute-Maximum Values):
respect to cathode	300 V	Heater Characteristics and Ratings (Absolute-Maximum Values):
Cathode Warm-Up Time (Minimum)	30 s	Heater Characteristics and Ratings (Absolute-Maximum Values):
Plate Supply Voltage	190 V	Characteristics, Class A I AmDl if ier (Each Unit):
Cathode Resistor	200 ohm	Characteristics, Class A I AmDl if ier (Each Unit):
Plate Resistance (Approx)	200 ohm	Characteristics, Class A I AmDl if ier (Each Unit):
Transconductance	13500 uS	Characteristics, Class A I AmDl if ier (Each Unit):
PLATE VOLTAGE	400 V	Maximum Ratings, Absolute-Maximum Values:
PLATE CURRENT	400 mA	Maximum Ratings, Absolute-Maximum Values:
PLATE DISSIPATION	30 W	Maximum Ratings, Absolute-Maximum Values:
For cathode-bias operation	0.5 megohm	Maximum Ratings, Absolute-Maximum Values:
b Minimum resistance per cathode should be	27 ohm	Maximum Ratings, Absolute-Maximum Values:
Heater Current	5.25 A	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
x ote iswith	6.3 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
of 9000 micromhos, a maximum heater-to-cathode leakage current	9000 uS	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
(both units) of	100 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
the following conditions: Heater voltage of	6.3 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
of 9000 r~icromhos, a maximum heater-to-cathode leakage current	9000 uS	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Iboth units! of	100 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	200 ohm	Promoted published value
Transconductance	13500 uS	Promoted published value
Amplification factor	2.7	Promoted published value
Plate Current (Each Unit)	200 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Plate Current (Each Unit)	10 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	500 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
ohms (each grid), and cat node resistor of	200 ohm	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	1 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
unit of	150 A	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
current Iboth units) of	8 A	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
of 6.3 volts, plate supply voltage of 190 volts, grid resistor	190 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
of 500 ohms in each grid, cathode resistor of 200 ohms in each	200 ohm	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
through the frequency range from	50 s	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
plate load resistor in excess of	200 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
supply voltage of	500 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
grid, and cathode resistor of	200 ohm	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
current (both units) of	8 A	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
individual	1000 ohm	than5 volts to al low for variations in the characteristics of