



ELECTRONIC TUBE REFERENCE

35HB8

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-TRIODE

Triode-pentode designed for stereo and monaural audio equipment, combining a voltage-amplifier triode with a power-output pentode in one series-heater envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9-pin miniature	BASE PINS	9
NOMINAL HEATER	35 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0039 S
AMPLIFICATION FACTOR	74
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	0.75 W
MAXIMUM CATHODE CURRENT	5 mA
Published promoted fields populated by semantic section ownership.	

SECTION2 Beam Power	
TRANSCONDUCTANCE	0.00626 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	6.5 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Published promoted fields populated by semantic section ownership.</i>	

Triode-pentode designed for stereo and monaural audio applications. It uses a nominal 35 V, 0.15 A heater. The supplied datasheet was used for ratings, characteristics, and typical operating data.

SOURCE OPERATING CONDITIONS

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3900 μ S	—
Amplification Factor	74	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Maximum Plate Dissipation	0.75 W	—
Maximum Cathode Current	5 mA	—
Plate Voltage	115 V	Triode section
Plate Current	2.5 mA	Triode section

1950 SYLVANIA

Section 2 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6250 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Maximum Screen Voltage	135 V	—
Maximum Plate Dissipation	6.5 W	—
Maximum Screen Dissipation	1.5 W	—
Maximum Cathode Current	50 mA	—
Plate Voltage	115 V	Beam power section

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage	115 V	Beam power section
Zero-Signal Plate Current	33 mA	—
Load Resistance	3500 ohm	—
Maximum-Signal Power Output	1 W	—
Total Harmonic Distortion	8 %	—



SOURCE DATA APPENDIX

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TriodeTransconductance	3900 uS	Section1

1961 TUNG SOL

Section 2 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PentodeTransconductance	6260 uS	Section2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	1 W	Section2



SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3900 μ S	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	150 V	Published datasheet value
MaxPlateDissipation	0.75 W	Published datasheet value
MaxCathodeCurrent	5 mA	Published datasheet value
Heater Voltage	35 V	Nominal heater rating
Heater Current	150 mA	Nominal heater rating

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 2 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6250 μ S	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	150 V	Published datasheet value
MaxScreenVoltage	135 V	Published datasheet value
MaxPlateDissipation	6.5 W	Published datasheet value
MaxScreenDissipation	1.5 W	Published datasheet value
MaxCathodeCurrent	50 mA	Published datasheet value
Heater Voltage	35 V	Nominal heater rating
Heater Current	150 mA	Nominal heater rating

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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