

ELECTRONIC TUBE REFERENCE

6BA8

Voltage Pentode - Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Medium-mu triode plus sharp-cutoff pentode designed for 600 mA series-string television receiver circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
Published promoted fields populated semantically; identical repeated sections compressed where applicable.	

SECTION2 Pentode	
PLATE RESISTANCE	250000 Ω
TRANSCONDUCTANCE	0.009 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3.25 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	11 s
<i>Published promoted fields populated semantically; identical repeated sections compressed where applicable.</i>	

Medium-mu triode plus sharp-cutoff pentode for 600 mA series-string television receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current..... 600 600 450 Ma	450 mA	Heater Current..... 600 600 450 Ma
Output. 4.5 3.6 puf	3.6 pF	Output. 4.5 3.6 puf
Grid No. 2 Supply Voltage.. 300 Volts	300 V	Grid No. 2 Supply Voltage.. 300 Volts
Piate Dissipation. 2.0 3.25 Watts	3.25 W	Piate Dissipation. 2.0 3.25 Watts
Grid No. 2 Dissipation. 1.0 Watt	1 W	Grid No. 2 Dissipation. 1.0 Watt
Negative Grid No. 1 Voltage..... 50 Volts	50 V	Negative Grid No. 1 Voltage..... 50 Volts
Positive Grid No. 1 Voltage... 0 Volts	0 V	Positive Grid No. 1 Voltage... 0 Volts
Grid No. 2 Voltage. ... 150 Volts	150 V	Grid No. 2 Voltage. ... 150 Volts
Grid No.1 Voltage. . . -8 0 Volts	0 V	Grid No.1 Voltage. . . -8 0 Volts
Plate Resistance (approx.)..... 6700 400,000 Ohms	400 Ohms	Plate Resistance (approx.)..... 6700 400,000 Ohms
Plate Current. 8.0 13 Ma	13 mA	Plate Current. 8.0 13 Ma
Grid No. 2 Current. 3.5 Ma	3.5 mA	Grid No. 2 Current. 3.5 Ma

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 Voltage for 1, = 10 ua (approx.) -16 -10 Volts	-10 V	Grid No. 1 Voltage for 1, = 10 ua (approx.) -16 -10 Volts

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 2 Voltage. See Rating Chart for Type 6AMS8	2 V	Grid No. 2 Voltage. See Rating Chart for Type 6AMS8


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1961 Tung Sol

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1961 TUNG SOL Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warmup Time	11 s	—

1961 TUNG SOL Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PentodeTransconductance	9000 uS	Section2


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	TriodeSection
Plate current	10 mA	TriodeSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	6000 Ω	TriodeSection
Transconductance	6500 μS	TriodeSection
Amplification factor	40	TriodeSection

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	125 V	PentodeSection
Screen voltage	125 V	PentodeSection
Plate current	12 mA	PentodeSection
Screen current	3.5 mA	PentodeSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	250000 Ω	PentodeSection
Transconductance	9000 μS	PentodeSection
Cutoff characteristic	Sharp	PentodeSection