



ELECTRONIC TUBE REFERENCE

6GE8

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Low-mu high-perveance triode plus sharp-cutoff pentode, particularly suited to voltage-regulator applications; the triode has about 7-watt plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9LC	BASE PINS	9
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	340000 Ω
TRANSCONDUCTANCE	0.0032 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM SCREEN DISSIPATION	0.5 W
<i>Sharp-cutoff pentode section.</i>	

SECTION2 Triode	
PLATE RESISTANCE	1080 Ω
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	5.4
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	7 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Low-mu high-perveance triode section for regulator service.</i>	

Low-mu high-perveance triode plus sharp-cutoff pentode, particularly suited to voltage-regulator applications.

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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	900 mA	—
Plate voltage	150150 V	Typical operating conditions
Screen voltage	150 V	Typical operating conditions
Plate current	5.535 mA	Typical operating conditions

1961 TUNG SOL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	900 mA	—
Plate voltage	150150 V	Typical operating conditions
Screen voltage	150 V	Typical operating conditions
Plate current	5.535 mA	Typical operating conditions

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	340000 ohm	—
Transconductance	3200 uS	—
OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	330 V	—
Maximum plate dissipation	1 W	—
Maximum screen-grid dissipation	0.5 W	—
Heater voltage	6.3 V	—
Heater current	900 mA	—
Typical plate voltage	150 V	—
Typical screen-grid voltage	150 V	—
Typical plate current	5.5 mA	—

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1080 ohm	—
Transconductance	5000 uS	—
Amplification factor	5.4	—
OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	275 V	—
Maximum plate dissipation	7 W	—
Maximum cathode current	50 mA	—
Heater voltage	6.3 V	—
Heater current	900 mA	—
Typical plate voltage	150 V	—
Typical plate current	35 mA	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid #1-to-plate capacitance	0.02 pF	—
Input capacitance	8 pF	—
Output capacitance	2.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	AverageCharacteristics
Screen voltage	150 V	AverageCharacteristics
Grid #1 voltage	-2 V	AverageCharacteristics
Plate current	5.5 mA	AverageCharacteristics
Screen current	2.7 mA	AverageCharacteristics

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	7.5 pF	—
Input capacitance	5.5 pF	—
Output capacitance	1.3 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	AverageCharacteristics
Grid voltage	-21 V	AverageCharacteristics
Plate current	35 mA	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero-bias plate current	70 mA	Eb=50V

TUBE TINKER

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