



ELECTRONIC TUBE REFERENCE

25D8GT

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-PENTODE-TRIODE

Diode-triode-pentode for compact AC/DC receivers, combining RF/IF amplification, detector, and audio-frequency signal functions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8AF	BASE PINS	8
NOMINAL HEATER	25 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Detector-diode section is physically present; this source publishes no separate diode maximum-rating table.

SECTION2 Triode

PLATE RESISTANCE	91000 Ω
TRANSCONDUCTANCE	0.0011 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	100 V

Published section data promoted where applicable; additional operating values retained as parameters.

SECTION3 Pentode	
PLATE RESISTANCE	200000 Ω
TRANSCONDUCTANCE	0.0019 S
MAXIMUM PLATE VOLTAGE	100 V
MAXIMUM SCREEN VOLTAGE	100 V
<i>Published section data promoted where applicable; additional operating values retained as parameters.</i>	

Midget diode-triode-pentode for small AC-DC receivers; the pentode can serve as an RF or IF amplifier and the diode-triode section as detector and AF amplifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1939 Arcturus

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

1939 ARCTURUS

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	—
Control-grid voltage	-1 V	—
Plate current	0.5 mA	—

1939 ARCTURUS

Section 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	—
Screen-grid voltage	100 V	—
Control-grid voltage	-3 V	—
Plate current	8.5 mA	—
Screen-grid current	2.7 mA	—



SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Grid voltage	-1 V	ClassA
Plate current	0.5 mA	ClassA

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Screen-grid voltage	100 V	ClassA
Grid voltage	-3 V	ClassA
Plate current	8.5 mA	ClassA
Screen-grid current	2.7 mA	ClassA



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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	150 mA	Nominal

1961 TUNG SOL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	150 mA	Nominal
Plate voltage	100 V	ClassA
Grid voltage	-1 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	0.5 mA	ClassA
Plate resistance	91000 ohm	ClassA
Transconductance	1100 uS	ClassA
Amplification factor	100	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control grid to cathode	3.7 pF	Direct interelectrode capacitance
Plate to cathode	4.5 pF	Direct interelectrode capacitance
Control grid to plate	2.5 pF	Direct interelectrode capacitance

1961 TUNG SOL

Section 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	150 mA	Nominal
Plate voltage	100 V	ClassA
Screen voltage	100 V	ClassA
Control-grid voltage	-3 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	8.5 mA	ClassA
Screen current	2.7 mA	ClassA
Plate resistance	200000 ohm	ClassA
Transconductance	1900 uS	ClassA
Control-grid voltage for transconductance 2 uS	-35 V	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control grid to cathode	5.2 pF	Direct interelectrode capacitance
Plate to cathode	10 pF	Direct interelectrode capacitance
Control grid to plate	0.015 pF	Direct interelectrode capacitance
Pentode control grid to triode grid	0.01 pF	Cross-section capacitance
Pentode control grid to triode plate	0.02 pF	Cross-section capacitance
Pentode plate to triode grid	0.1 pF	Cross-section capacitance

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