

6EV7

Voltage - Dual Triode (similar) electronic tube

Dissimilar twin triode for television circuitry, combining sections with differing characteristics for oscillator, amplifier, or related receiver functions.

GENERAL CHARACTERISTICS

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

9LP - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	B	P – Plate (Anode)	CONNECTED
PIN2	B	G1 – Control Grid	CONNECTED
PIN3	B	K – Cathode	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	A	P – Plate (Anode)	CONNECTED
PIN7	A	G1 – Control Grid	CONNECTED
PIN8	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	11500 Ω
TRANSCONDUCTANCE	0.0052 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	25 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
<i>Published promoted fields populated from the printed semantic headings.</i>	

SECTION2 Triode	
PLATE RESISTANCE	11500 Ω
TRANSCONDUCTANCE	0.0052 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Second physical triode restored.</i>	

The 6EV7 is a high-mu twin triode specifically processed for relay-control and standby operation in television remote-control tuning equipment.

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 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage! 6.3 Volts	6.3 V	Heater Voltage! 6.3 Volts
Heater Current? 600 Ma	600 mA	Heater Current? 600 Ma
Heater Voltaged. 6.3 + 0.6 Volts	0.6 V	Heater Voltaged. 6.3 + 0.6 Volts
Output: pto(h+k)..... 0.33 0.23 uuf	0.23 pF	Output: pto(h+k)..... 0.33 0.23 uuf
Plate Voltage. i i 250 Volts	250 V	Plate Voltage. i i 250 Volts
Grid Voltage. i -2 Volts	-2 V	Grid Voltage. i -2 Volts
Plate Current. 9.2 Ma	9.2 mA	Plate Current. 9.2 Ma
Transconductance. o 5200 umhos	5200 umhos	Transconductance. o 5200 umhos
Plate Resistance. it 11,500 Ohms	11.5 Ohms	Plate Resistance. it 11,500 Ohms
Plate Supply Voltage. 150 256 Volts	256 V	Plate Supply Voltage. 150 256 Volts
Zero Bias Plate Current. 10 18.5 Ma	18.5 mA	Zero Bias Plate Current. 10 18.5 Ma
6. Plate dissipation can be as high as 2.5 watts when the "ON" time exceeds	2.5 W	6. Plate dissipation can be as high as 2.5 watts when the "ON" time exceeds
6. Plate dissipation can be as high as 4.5 watts when the "ON" time does not	4.5 W	6. Plate dissipation can be as high as 4.5 watts when the "ON" time does not

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage. i i 300 Volts Max.	300 V	Plate Voltage. i i 300 Volts Max.
Plate Dissipationd. 2.5 Watts Max.	2.5 W	Plate Dissipationd. 2.5 Watts Max.
Plate Dissipation'. 4.5 Watts Max.	4.5 W	Plate Dissipation'. 4.5 Watts Max.
Positive Grid Voltage. 0 Volts Max.	0 V	Positive Grid Voltage. 0 Volts Max.
Cathode Current. 20 Ma Max.	20 mA	Cathode Current. 20 Ma Max.
Grid Circuit Resistance. 3.9 Megohms Max.	3.9 Megohms	Grid Circuit Resistance. 3.9 Megohms Max.


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Tung Sol

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1961 TUNG SOL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5200 uS	Typical


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_voltage	250 V	Section1,Section2,ClassA
Grid_voltage	-2 V	Section1,Section2,ClassA
Plate_supply_voltage	250 V	Section1,Section2,RelayControl

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	7.2 mA	Section1,Section2,ClassA
Zero_bias_plate_current	18.5 mA	Section1,Section2,RelayControl

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	3 pF	Section1,Section2
Input capacitance	3 pF	Section1,Section2
Output capacitance	0.33 pF	Section1,Section2

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