



ELECTRONIC TUBE REFERENCE

12AV6

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode high-mu triode combining detector and audio voltage-amplifier functions. The diode sections recover and rectify receiver signals while the high-gain triode provides substantial audio-frequency voltage amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7BT	BASE PINS	7
NOMINAL HEATER	12.6 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

7BT - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 1G1	A	G1 – Control Grid	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – 2P	B	P – Plate (Anode)	CONNECTED
PIN6 – 3P	C	P – Plate (Anode)	CONNECTED
PIN7 – 1P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Representative section for two detector diodes sharing a cathode.

SECTION2 Triode

PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	0.5 W

Published ratings and characteristics promoted from the approved French source.

SECTION3 Diode

No fixed ratings recorded.

Second physical detector diode; duplicated from identical diode section.

Twin-diode triode for detection and AF amplification.



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 2 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	1.2 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Diode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Detector text	—



1975 RCA RC30

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

1975 RCA RC30
Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 4.2 6.3	12.6 V	Published in approved 6AV6 target entry; Section2
Heater Current 0.45 0.3	150 mA	Published in approved 6AV6 target entry; Section2

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode Grid to Triode Plate	2 pF	Published in approved 6AV6 target entry; Section2
Triode Grid to Cathode and Heater	2.2 pF	Published in approved 6AV6 target entry; Section2
This value is	1.2 pF	Published in approved 6AV6 target entry; Section2
Plate Voltage	330 V	Published in approved 6AV6 target entry; Section2
Grid Voltage, Positive-bias value	0 V	Published in approved 6AV6 target entry; Section2
Plate Dissipation	0.55 W	Published in approved 6AV6 target entry; Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage 100	250 V	Published in approved 6AV6 target entry; Section2
– 1	-2 V	Published in approved 6AV6 target entry; Section2
Plate Resistance 80000	62500 Ω	Published in approved 6AV6 target entry; Section2
Plate Current 0.50	1.2 mA	Published in approved 6AV6 target entry; Section2
Plate Current (Each Unit)	1 mA	Published in approved 6AV6 target entry; Section2

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 4.2 6.3	12.6 V	Published in approved 6AV6 target entry; Section1
Heater Current 0.45 0.3	150 mA	Published in approved 6AV6 target entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode Grid to Triode Plate	2 pF	Published in approved 6AV6 target entry; Section1
Triode Grid to Cathode and Heater	2.2 pF	Published in approved 6AV6 target entry; Section1
This value is	1.2 pF	Published in approved 6AV6 target entry; Section1
Plate Voltage	330 V	Published in approved 6AV6 target entry; Section1
Grid Voltage, Positive-bias value	0 V	Published in approved 6AV6 target entry; Section1
Plate Dissipation	0.55 W	Published in approved 6AV6 target entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage 100	250 V	Published in approved 6AV6 target entry; Section1
– 1	-2 V	Published in approved 6AV6 target entry; Section1
Plate Resistance 80000	62500 Ω	Published in approved 6AV6 target entry; Section1
Plate Current 0.50	1.2 mA	Published in approved 6AV6 target entry; Section1
Plate Current (Each Unit)	1 mA	Published in approved 6AV6 target entry; Section1

TUBE TINKER

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

