



6AV6

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TWIN DIODE-HIGH-MU TRIODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:
 Voltage (AC or DC) 6.3 ± 10% volts
 Current. 0.3 amp
 Direct Interelectrode Capacitances:

	Without External Shield	With External Shield
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Triode Unit:

Grid to plate.	2	2	$\mu\mu f$
Grid to cathode and heater.	2.2	2.2	$\mu\mu f$
Plate to cathode and heater	0.8	1.2	$\mu\mu f$
Diode-No.2 plate to triode grid	0.04 max.	0.04 max.	$\mu\mu f$

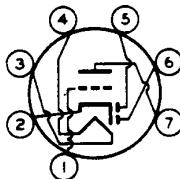
Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage.	100	250	volts
Grid Voltage	-1	-2	volts
Amplification Factor	100	100	
Plate Resistance (Approx.)	0.08	0.0625	megohm
Transconductance	1250	1600	$\mu mhos$
Plate Current.	0.5	1.2	ma

Mechanical:

Operating Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length.	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline.	See General Section
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW	7BT

Pin 1-Triode Grid
 Pin 2-Cathode
 Pin 3-Heater
 Pin 4-Heater



Pin 5-Diode Plate
 No.2
 Pin 6-Diode Plate
 No.1
 Pin 7-Triode Plate

TRIODE UNIT — AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE.	330	max. volts
GRID VOLTAGE:		
Positive-bias value.	0	max. volts
PLATE DISSIPATION.	0.55	max. watt

← indicates a change.

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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . 200 max. volts
Heater positive with respect to cathode. . . 200[▲] max. volts

Typical Operation as Resistance-Coupled Amplifier:

See RESISTANCE-COUPLED AMPLIFIER CHART No. 25
at front of this Section

DIODE UNITS — Two

→ Maximum Ratings, Design-Maximum Values:

PLATE CURRENT (For each diode) 1 max. ma

→ Characteristics:

Values are for Each Unit

Plate Current for plate volts = 10 2 ma

Diode Considerations:

Consideration of these units, including typical circuits and diode curves, is given at the front of this Section. Diode biasing of the triode unit of the 6AV6 is not suitable.

^o With external shield JEDEC No.316 connected to cathode.

[▲] The dc component must not exceed 100 volts.

Curves for the triode unit of the 6AV6 are the
same as those shown for Type 12AX7

→ Indicates a change.