



ELECTRONIC TUBE REFERENCE

6BV7

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-PENTODE

Duo-diode power-pentode combination integrating detector functions with loudspeaker output for economical radio receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9BU	BASE PINS	9
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode

PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5 W

Promoted values from 6BV7_AWV.pdf; section type follows printed electrode/function description.

SECTION2 Diode

No fixed ratings recorded.

Promoted values from 6BV7_AWV.pdf; section type follows printed electrode/function description.

SECTION3 Diode

No fixed ratings recorded.

Promoted values from 6BV7_AWV.pdf; section type follows printed electrode/function description.

Miniature duo-diode power-amplifier pentode. Designed primarily for low-cost four-valve receivers and capable of power-output service at reduced plate and screen voltages.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Amalgamated Wireless

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

1946 AMALGAMATED WIRELESS

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.5 pF	Direct interelectrode capacitance
Input capacitance	11.5 pF	Direct interelectrode capacitance
Output capacitance	9.5 pF	Direct interelectrode capacitance

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published handbook rating
Maximum screen voltage	250 V	Published handbook rating
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Control-grid bias	5 V	ClassA
Plate current	38 mA	ClassA
Screen current	6 mA	ClassA
Load resistance	8000 ohm	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	4 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	100000 ohm	Published handbook characteristic
Transconductance	10000 μ S	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	800 mA	Published heater rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	11.5 pF	Published capacitance column
Output capacitance	9.5 pF	Published capacitance column
Grid-to-plate capacitance	0.5 pF	Published capacitance column

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