

ELECTRONIC TUBE REFERENCE

6BA5

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Miniature sharp-cutoff pentode for receiving and general electronic small-signal applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	175000 Ω
TRANSCONDUCTANCE	0.00215 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
Sharp-cutoff pentode.	

Miniature pentode intended for receiving and electronic applications.



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage . . 6.3 Volts	6.3 V	Heater Voltage . . 6.3 Volts
Heater Current . . 150 Ma	150 mA	Heater Current . . 150 Ma
Plate Voltage 100 Volts	100 V	Plate Voltage 100 Volts
Screen Voltage . . 100 Volts	100 V	Screen Voltage . . 100 Volts
Plate Current 5.9 Ma	5.9 mA	Plate Current 5.9 Ma
Screen Current. 2 Ma	2 mA	Screen Current. 2 Ma
Plate Resistance (approx.) 175,000 Ohms	175 Ohms	Plate Resistance (approx.) 175,000 Ohms
Control Grid Bias Voltage for I _{b1} , -10 p.a -13.5 Volts	-13.5 V	Control Grid Bias Voltage for I _{b1} , -10 p.a -13.5 Volts

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage . . 140 Volts Max.	140 V	Screen Voltage . . 140 Volts Max.
Plate Dissipation . . 0.7 Watt Max.	0.7 W	Plate Dissipation . . 0.7 Watt Max.
Heater-Cathode Voltage . 90 Volts Max.	90 V	Heater-Cathode Voltage . 90 Volts Max.



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
Plate voltage	100 V	ClassA
Screen-grid voltage	100 V	ClassA
Cathode resistor	270 ohm	ClassA
Plate current	5.5 mA	ClassA
Screen-grid current	2 mA	ClassA