



ELECTRONIC TUBE REFERENCE

5638

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Subminiature pentode designed for compact voltage-amplifier service in communications, instrumentation, and other space-constrained equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5638	BASE PINS	6
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.0033 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	140 V
MAXIMUM PLATE DISSIPATION	0.6 W
MAXIMUM SCREEN DISSIPATION	0.2 W
<i>Amplifier pentode; 100-V Class A point promoted.</i>	

Subminiature pentode voltage amplifier.



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
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	150 mA	—



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
Plate Voltage	100 V	ClassA
Screen Voltage	100 V	ClassA
Cathode Resistor	270 ohm	ClassA
Plate Current	4.8 mA	ClassA
Screen Current	1.25 mA	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	4 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output Capacitance	6.5 pF	—
Grid-to-Plate Capacitance	0.19 pF	—

TUBE TINKER

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