



ELECTRONIC TUBE REFERENCE

1S6

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Very-low-power battery diode-pentode for detector and amplifier service. The diode provides signal detection while the pentode supplies subsequent voltage amplification from an exceptionally economical directly heated filament.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DA	BASE PINS	8
NOMINAL HEATER	1.25 V / 40 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Detector diode section.

SECTION2 Pentode

PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.0006 S
MAXIMUM PLATE VOLTAGE	100 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM CATHODE CURRENT	2 mA

Combined diode and pentode for detector and amplifier service in battery receivers.

Combined diode and pentode for detector and amplifier service in battery receivers. Electrical ratings and representative operating data were extracted from the approved manual page.



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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Diode Current	0.25 mA	Continuous

1950 SYLVANIA

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	30 V	Point 1
Plate Voltage	45 V	Point 2
Plate Voltage	67.5 V	Point 3
Plate Current	0.33 mA	30 V
Plate Current	0.75 mA	45 V
Plate Current	1.6 mA	67.5 V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	330 μ S	30 V
Transconductance	475 μ S	45 V
Transconductance	600 μ S	67.5 V



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 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	67.5 V	ClassA; OperatingPoint1
Screen voltage	67.5 V	ClassA; OperatingPoint1
Control-grid bias	0 V	ClassA; OperatingPoint1
Plate current	1.6 mA	ClassA; OperatingPoint1
Screen current	0.4 mA	ClassA; OperatingPoint1
Plate voltage	30 V	ClassA; OperatingPoint2
Screen voltage	30 V	ClassA; OperatingPoint2
Control-grid bias	0 V	ClassA; OperatingPoint2
Plate current	0.33 mA	ClassA; OperatingPoint2
Screen current	0.1 mA	ClassA; OperatingPoint2

TUBE TINKER

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