



ELECTRONIC TUBE REFERENCE

1Q6

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Very-low-power battery diode-pentode combining signal detection with voltage amplification. The diode recovers the received signal while the pentode provides subsequent gain from an exceptionally economical directly heated filament.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8C0	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 detector diode and pentode amplifier for low-voltage battery receivers.

Combined detector diode and pentode amplifier for low-voltage 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 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	30 V	—
Plate Voltage	67.5 V	—
Screen Voltage	30 V	—
Screen Voltage	67.5 V	—
Plate Current	0.33 mA	30 V
Plate Current	1.6 mA	67.5 V



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 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.8 pF	—
Output capacitance	4.2 pF	—
Grid-to-plate capacitance	0.085 pF	—

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	0.09 mA	ClassA; OperatingPoint2

TUBE TINKER

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and their source documents.

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