



ELECTRONIC TUBE REFERENCE

2E41

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Ultra-low-power battery diode-pentode combining signal detection with voltage amplification. The diode supplies detector action while the pentode provides subsequent gain from exceptionally economical filament and plate supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	2E41	BASE PINS	—
NOMINAL HEATER	1.25 V / 30 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Promoted from the printed maximum-rating/characteristic columns; additional operating-point and capacitance data are retained in TUBE_SECTION_PARAMETER. The condensed chart identifies a diode section but does not publish separate diode limiting ratings.

SECTION2 Pentode

PLATE RESISTANCE	250000 Ω
TRANSCONDUCTANCE	0.000375 S
MAXIMUM PLATE VOLTAGE	45 V
MAXIMUM SCREEN VOLTAGE	45 V

Promoted from the printed maximum-rating/characteristic columns; additional operating-point and capacitance data are retained in TUBE_SECTION_PARAMETER.

Directly heated diode-pentode for low-voltage battery-operated Class-A amplifier service.

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.7 pF	Section2
Output capacitance	4.3 pF	Section2
Grid-to-plate capacitance	0.1 pF	Section2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	22.5 V	ClassA
Screen voltage	22.5 V	ClassA
Cathode resistor	5000000 Ω	ClassA
Plate current	0.35 mA	ClassA
Screen current	0.12 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	250000 Ω	ClassA
Transconductance	375 μS	ClassA

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