

ELECTRONIC TUBE REFERENCE

1AJ5

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
DIODE-PENTODE

Directly heated diode and sharp-cutoff pentode combination designed for low-voltage Class-A amplifier service in battery-operated equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	1AJ5	BASE PINS	–
NOMINAL HEATER	1.25 V / 400 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 condensed-manual maximum/characteristic columns; operating-point values are retained in TUBE_SECTION_PARAMETER. The condensed chart identifies a diode section but gives no separate diode limiting ratings.

SECTION2 Pentode

PLATE RESISTANCE	300000 Ω
TRANSCONDUCTANCE	0.000425 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	90 V

Promoted from the printed condensed-manual maximum/characteristic columns; operating-point values are retained in TUBE_SECTION_PARAMETER.

Directly heated combination diode and sharp-cutoff pentode for low-voltage 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	1.7 pF	Section2
Output capacitance	2.4 pF	Section2
Grid-to-plate capacitance	0.1 pF	Section2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	45 V	ClassA
Screen voltage	45 V	ClassA
Plate current	1 mA	ClassA
Screen current	0.3 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	300000 Ω	ClassA
Transconductance	425 μS	ClassA