

ELECTRONIC TUBE REFERENCE

182B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Directly heated low-load-resistance power-amplifier triode retained as a replacement type for older Sparton receivers, intended for receiver audio-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	D	BASE PINS	4
NOMINAL HEATER	5 V / 1.25 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2500 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	250 V
Promoted from printed maximum-rating/characteristic columns; additional published values retained in TUBE_SECTION_PARAMETER.	

182B — Power Amplifier Triode

The **182B** (also designated as the **182-B** and **482B**) is a classic power amplifier triode designed for low load impedance power amplification. It was produced primarily as a replacement tube for older SPARTON receivers.

Mechanical Construction and Pinout

The 182B is constructed with an **ST-14** glass envelope (referenced in outline drawing 14-1) and utilizes a **Medium 4-pin** base (4-D connection layout). For proper operation, the tube must be mounted in a **vertical** position.

The 4-pin base configuration provides the following electrical connections:

- **Pins 1 & 4:** Filament (F, F)
- **Pin 2:** Plate (P)
- **Pin 3:** Grid (G)

Filament Ratings

The 182B features a directly heated filament. The filament specifications are as follows:

Parameter	Value
Filament Voltage (AC or DC)	5.0 V
Filament Current	1.25 A

Electrical Characteristics and Operating Points

The 182B is rated for a maximum plate voltage of **250 V**. Under typical Class A amplifier operating conditions, the tube exhibits the following characteristics:

Parameter	Operating Point A	Operating Point B
Plate Voltage	250 V	250 V
Grid Voltage (Negative)	-35 V	-35 V
Plate Current	18 mA	20 mA
Transconductance (Mutual Conductance)	1,500 μ mhos	2,000 μ mhos
Amplification Factor (Mu)	5.0	5.0
Internal Resistance	—	2,500 Ω
Load Impedance	—	4,500 Ω
Power Output	—	1.35 W

The variation in plate current (18 mA to 20 mA) and transconductance (1,500 μ mhos to 2,000 μ mhos) represents different documented typical values under a 250 V plate and -35 V grid bias.

Applications

The 182B is classified specifically as a power amplifier triode. Its electrical design makes it suitable for low load impedance power amplifiers. Historically, the tube is intended solely as a replacement part for older SPARTON receivers ("anciens récepteurs SPARTON").



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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	2500 ohm	—
Transconductance	2000 μ S	—
Amplification Factor	5	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	—
Grid Voltage	-35 V	—
Plate Current	20 mA	—
Load Impedance	4500 ohm	—
Power Output	1.35 W	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA

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