



ELECTRONIC TUBE REFERENCE

SV300B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Svetlana reproduction of the classic directly heated 300B audio power triode. With about 40 W plate dissipation and low plate resistance, it is optimized for high-quality single-ended Class A audio output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	5 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	700 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	3.85
MAXIMUM PLATE VOLTAGE	450 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM CATHODE CURRENT	100 mA
<i>Published ratings/characteristics promoted where unambiguous.</i>	

Power triode, medium 4-pin base. Exact duplicate of original version, with same

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

199X Svetlana

Published test conditions and operating points. Values on this page are preserved as reported by this source.

199X SVETLANA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) 5.0±	0.3 V	SourcePage1-2
Current	1.2 A	SourcePage1-2
Plate resistance	700 ohms	SourcePage1-2
Grid to plate	15 pF	SourcePage1-2
Grid to filament	9 pF	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC plate voltage	450 V	SourcePage1-2
Plate dissipation	40 W	SourcePage1-2
Plate voltage	450 V	TypicalOperation
Grid voltage	-100 V	TypicalOperation
Plate current, no signal	60 mA	TypicalOperation
Plate current, max signal	65 mA	TypicalOperation
Effective load resistance	5500 ohms	TypicalOperation
Distortion at 1 watt into	8 ohms	TypicalOperation
Power output at 5% distortion	10 W	TypicalOperation
Vg =	0 V	TypicalOperation
Vg =	-160 V	TypicalOperation