

SVETLANA TECHNICAL DATA

SV811-10A

High Performance Audio Power Triode



The Svetlana™ SV811-10A is a power triode intended for use in class A, AB, or B audio amplifiers. It is one of the lowest distortion tubes ever made.

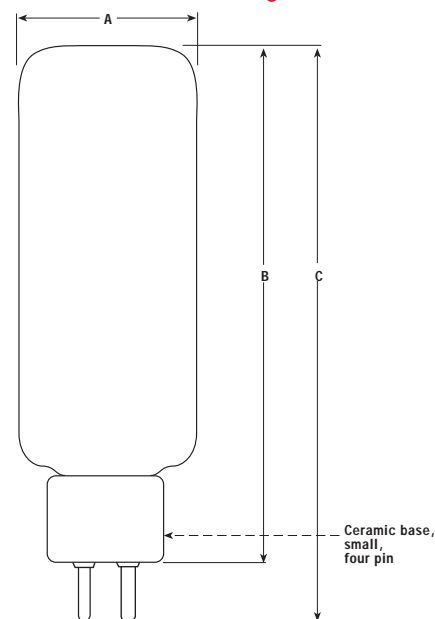
Features:

- Directly heated thoriated tungsten filament for soft glow and warm sound
- Transmitting tube design, hard glass envelope with white ceramic base
- Low microphonic construction with ceramic internal spacers and mica supports
- Excellent gettering system
- Superb aesthetic appearance

Characteristics

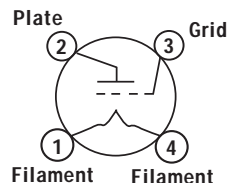
Electrical	
Filament:	Thoriated-tungsten
Voltage (AC or DC)	6.3 ± 0.3 V
Current	4 A
Amplification factor (nominal)	9.5
Transconductance (nominal)	3800 μS
Plate resistance (nominal)	2500 ohms
Interelectrode capacitances (typical), with filament grounded:	
Grid to plate	8 pF
Grid to filament	7 pF
Mechanical	
Cooling	Radiation and convection
Base	Ceramic, four pin, small
Basing diagram	JEDEC 4D
Socket	Svetlana SK4A or equivalent
Operating position- Axis vertical, base down or horizontal w/pins 1 and 4 in vertical plane (Adequate surrounding clearance for cooling must be maintained)	
Nominal dimensions:	
Diameter	45.7 mm (1.8 in.)
Base to top	127 mm (5.0 in)
Overall height	138.2 mm (5.44 in.)
Net weight	100 g
Maximum ratings	
DC plate voltage	800 V
Maximum-signal DC plate current	160 mA
Plate Dissipation	65 W
Grid Current	50 mA

Svetlana Outline drawing



Dimensional Data		
Dim.	Millimeters	Inches
A	45.7	1.80
B	127	5.00
C	138.2	5.44

Base pin connections bottom view



Notes:

The internal structure is aligned with respect to the base pins to avoid internal shorting problems in equipment designed for horizontal mounting.

The anode may be operated while showing small red spots, without decreasing lifetime, as long as dissipation is kept below 65 watts.



Svetlana
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Svetlana SV811-10A

High Performance

Audio Power Triode



Typical Operation, Class AB₂, Audio Amplifier (Values for two tubes, Push Pull)

Plate voltage	800	V
Grid voltage	-50	V
Peak grid-to-grid drive	200	VP-P
DC Plate current, zero signal (both tubes)	80	mA
DC Plate current, max signal (both tubes)	160	mA
Effective load resistance (plate to plate)	10,000	ohms
Power output at 5% distortion	45	W

- Notes: 1. A μ of 3.5 version of this tube is available, the SV811-3A
2. The SV811-10A may be replaced in any equipment with the SV811-10 or SV572-10.

