

SVETLANA TECHNICAL DATA

SV811-3A

Low-Mu Audio Power Triode



The Svetlana™ SV811-3A is a power triode intended for use in class A, AB, or B audio amplifiers. It features:

- Directly heated thoriated tungsten filament for soft glow and warm sound
- Hard glass envelope with white ceramic base
- Low microphonic construction with ceramic internal spacers
- Titanium 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)	3.5
Transconductance (nominal)	1700 μS
Plate resistance (nominal)	2000 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 (maintain at least 4 inches clearance from other components)

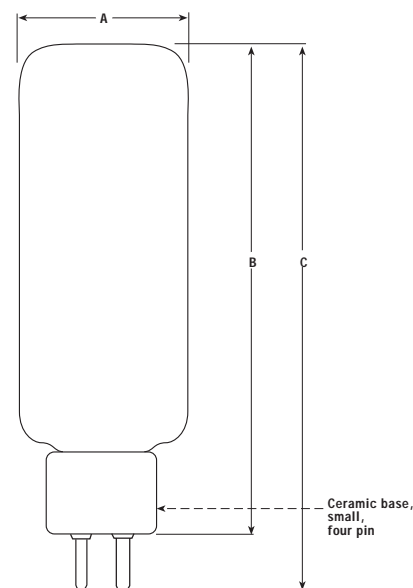
Nominal dimensions:

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

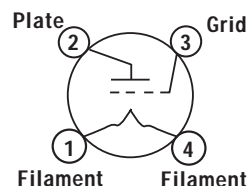
Svetlana Outline drawing



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
ELECTRON DEVICES

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

Plate voltage	600	V
Grid voltage	-110	V
Peak grid-to-grid drive	350	V _{P-P}
DC Plate current, zero signal*	100	mA
DC Plate current, max signal	160	mA
Effective load resistance (plate to plate)	10,000	ohms
Power output at 5% distortion	30	W

* Graphite anode glows red near rated power.

Note: The SV811-3A may be replaced in any equipment with the SV811-3 or SV572-3.

