



SVETLANA TECHNICAL DATA

SV572-160

High Performance Audio Power Triode

- The Svetlana™ SV572-160 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
 - Graphite plate with titanium coating for extremely high power capability and inherent gettering
 - Superb aesthetic appearance
 - The SV572-160 has a plate dissipation of 125 watts maximum, and is intended for audio applications where triodes of the 811A type are normally used, while giving superior performance.

Characteristics

Electrical

Filament:	<i>Thoriated-tungsten</i>	
Voltage (AC or DC)	6.3 ± 0.3	V
Current	4	A
Amplification factor (nominal)	160	
Transconductance (nominal)	9000	μS
Plate resistance (nominal)	17,000 ohms	
Interelectrode capacitances (typical), with filament grounded:		
Grid to plate	8	pF
Grid to filament	7	pF

Mechanical

Cooling	<i>Radiation and convection</i>
Base	<i>Ceramic, four pin, small</i>
Basing diagram	<i>JEDEC 4D</i>
Socket	<i>Svetlana SK4A or equivalent</i>
Operating position-	<i>Axis vertical, base down or horizontal w/pins 1 and 4 in vertical plane (Adequate surrounding clearance for cooling must be maintained)</i>

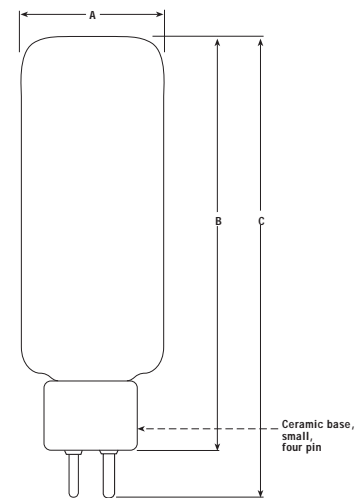
Nominal dimensions:

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	106 g

Maximum ratings

DC plate voltage	1000	V
Maximum-signal DC plate current	210	mA
Plate Dissipation	125	W
Grid Current	50	mA

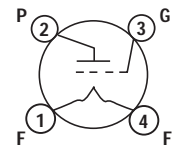
Svetlana Outline drawing



Dimensional Data

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

Base pin connections bottom view



- | | |
|------------|------------|
| 1 Filament | 3 Grid |
| 2 Plate | 4 Filament |

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 at red heat without decreasing lifetime, as long as dissipation is kept below 125 watts.



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Svetlana SV572-160

High Performance

Audio Power Triode



Typical Operation, Class A₂, Audio Amplifier, single-ended

DC Plate voltage	1000	V
Grid voltage	+5	V
Peak grid-to-grid drive	80	VP-P
DC Plate current, zero signal	50	mA
DC Plate current, max signal	70	mA
Plate load resistance	10,000	ohms
Distortion at max output	5.0	%
Power output at distortion above	15.3	W

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

DC Plate voltage	1000	V
Grid voltage	+5	V
Peak grid-to-grid drive	300	VP-P
DC Plate current, zero signal	50	mA
DC Plate current, max signal	85	mA
Plate load resistance	9600	ohms
Distortion at max. output	10.0	%
Power output at distortion above	32	W

*Note: graphite anode glows red near rated power.

Note: Allow for contact potential and secondary emission in grid biasing.

Two Svetlana logos are imprinted on the glass envelope centered over pins 1-2 and 3-4 respectively

Note: The 572-160 is one product in a series of four similar products as follows:

TUBE	μ
SV572-3	3.5
SV572-10	10
SV572-30	30
SV572-160	160

