



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:	Thoriated-tungsten	
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	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)

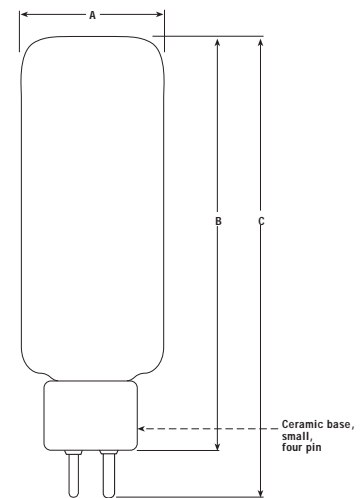
Nominal dimensions:

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	106 g

Maximum ratings

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

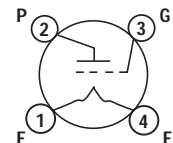
Svetlana Outline drawing



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.



Svetlana
ELECTRON DEVICES

Headquarters:

8200 South Memorial Parkway
Huntsville, AL 35802
USA
Phone: 256 882 1344
Fax: 256 880 8077

Marketing & Engineering:

3000 Alpine Road
Portola Valley, CA 94028
USA
Phone: 650 233 0429
Fax: 650 233 0439

www.svetlana.com

Svetlana SV572-160

High Performance

Audio Power Triode



Typical Operation, Class A₂, Single Tube

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, Push-Pull, 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: allow for contact potential and secondary emission in grid biasing.)

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

