



# 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)	$6.3 \pm 0.3$ V
Current	4 A
Amplification factor (nominal)	160
Transconductance (nominal)	9000 $\mu$ S
Plate resistance (nominal)	17,000 ohms
Interelectrode capacitances (typical), with filament grounded:	
Grid to plate	8 pF
Grid to filament	7 pF

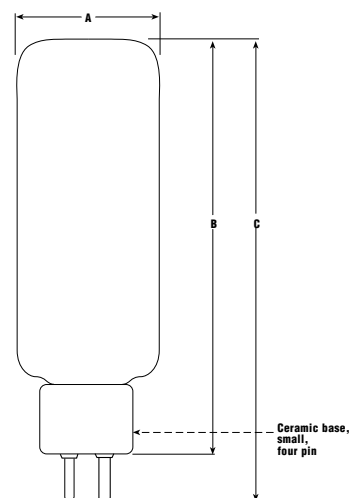
##### Mechanical

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

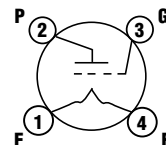
#### Svetlana Outline drawing



##### 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: 205 882 1344  
Fax: 205 880 8077

#### Marketing & Engineering:

3000 Alpine Road  
Portola Valley, CA 94028  
USA  
Phone: 415 233 0429  
Fax: 415 233 0439

[www.svetlana.com](http://www.svetlana.com)

4/97

# Svetlana SV572-160

## High Performance

## Audio Power Triode



**Typical Operation, Class A<sub>2</sub>, Audio Amplifier, single-ended**

Plate voltage	750	V
Grid voltage	30	V
Peak grid-to-grid drive	60	VP-P
DC Plate current, zero signal	130	mA
DC Plate current, max signal	210	mA
Effective load resistance	5000	ohms
Distortion at 1 watt into 8 ohms	0.68%	
Power output at 5% distortion	40	W

**Typical Operation, Class AB<sub>2</sub>, Audio Amplifier (Values for two tubes)**

Plate voltage	1000	V
Grid voltage	20	V
Peak grid-to-grid drive	195	VP-P
DC Plate current, zero signal	75	mA
DC Plate current, max signal	390	mA
Effective load resistance (plate to plate)	8000	ohms
Power output at 5% distortion	150	W

\*Note: graphite anode glows red near rated power.

Note: Allow for contact potential in bias voltage adjustment.

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	$\mu$
SV572-3	3.5
SV572-10	10
SV572-30	30
SV572-160	160

