

# SVETLANA TECHNICAL DATA

## SV572-10

### High Performance Audio Power Triode



The Svetlana™ SV572-10 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:

- Massive graphite anode for high power capability, 125 Watt rating
- 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 enhanced by titanium bonded with the graphite anode surface. Titanium has an index of gas absorption 10 times greater than barium
- Superb aesthetic appearance
- The SV572-10 delivers performance and sound superior to 100-watt triodes such as the antique 211 or 845. The SV572-10 has lower plate resistance, lower filament power, and smaller physical size.

#### Characteristics

##### Electrical

Filament:	Thoriated-tungsten
Voltage (AC or DC)	6.3 ± 0.3 V
Current	4 A
Amplification factor (nominal)	9.5
Transconductance (nominal)	4500 μS
Plate resistance (nominal)	2100 ohms
Interelectrode capacitances (typical), with filament grounded:	
Grid to plate	5 pF
Grid to filament	6.4 pF

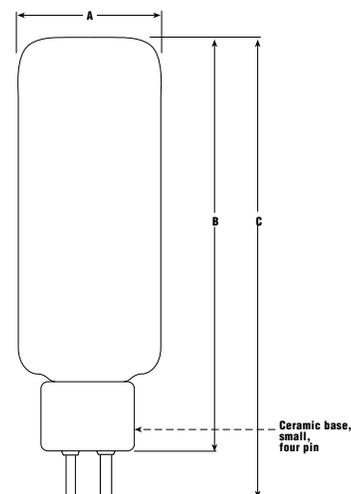
##### Mechanical

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

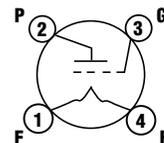


#### Dimensional Data

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

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# Svetlana SV572-10 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	200	VP-P
DC Plate current, zero signal (per tube)*	140	mA
DC Plate current, max signal (per tube)	190	mA
Effective load resistance (plate to plate)	5000	ohms
Distortion at 1 watt into 8 ohms	0.05%	
Power output at 5% distortion	40	W

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

Plate voltage	1000	V
Grid voltage	-60	V
Peak grid-to-grid drive	340	VP-P
DC Plate current, zero signal (both tubes)*	200	mA
DC Plate current, max signal (both tubes)	340	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: The 572-10 is one product in a series of four similar products as follows:

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

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

