

# SVETLANA TECHNICAL DATA

## SV572-3

### Low-Mu Audio Power Triode



The Svetlana™ SV572-3 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 SV572-3 has a plate dissipation of 125 watts maximum, making it useful in applications where a 100-watt triode (211 or 845) would normally be used, while having lower plate resistance, lower filament power and a smaller physical size.

#### Characteristics

##### Electrical

Filament:	Thoriated-tungsten
Voltage (AC or DC)	$6.3 \pm 0.3$ V
Current	4 A
Amplification factor (nominal)	3.5
Transconductance (nominal)	1800 $\mu$ S
Plate resistance (nominal)	1900 ohms
Interelectrode capacitances (typical), with filament grounded:	
Grid to plate	8 pF
Grid to filament	7 pF

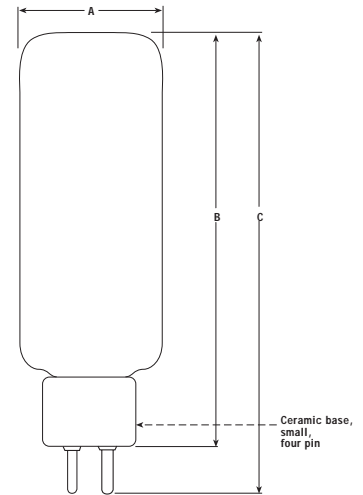
##### Mechanical

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	106 g

##### Maximum ratings

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

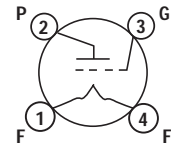
#### Svetlana Outline drawing



#### 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 SV572-3 Low-Mu Audio Power Triode



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## Typical Operation, Single Tube, Class A

Class of Operation	A1	A1	A2	
DC plate voltage	500	900	900	V
Grid voltage	-78	-180	-180	V
Peak grid drive	150	340	470	VP-P
DC plate current, zero signal	80	100	100	mA
DC plate current, max signal	85	120	140	mA
Plate load resistance	5000	5000	5000	ohms
Distortion at max output	0.3	0.35	1.0	%
Power output at distortion above	3.6	20	41.6	W

## Typical Operation, Push-Pull, Two Tubes

Class of Operation	AB1	AB1	AB2	
DC plate voltage	450	900	900	V
Grid voltage	-87	-178	-178	V
Peak grid drive, grid-to-grid	348	640	1080	VP-P
DC Plate current, zero signal	150	220	220	mA
DC Plate current, max signal	175	260	380	mA
Plate load resistance	9600	9600	9600	ohms
Distortion at max output	0.14	1.0	3.0	%
Power output at distortion above	12	39	128	W

(Note: allow for plate contact potential and secondary emission in grid biasing.)

Note: The 572-3 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

