

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 ± 0.3 V
Current	4 A
Amplification factor (nominal)	3.5
Transconductance (nominal)	1800 μS
Plate resistance (nominal)	1900 ohms
Interelectrode capacitances (typical), with filament grounded:	
Grid to plate	8 pF
Grid to filament	7 pF

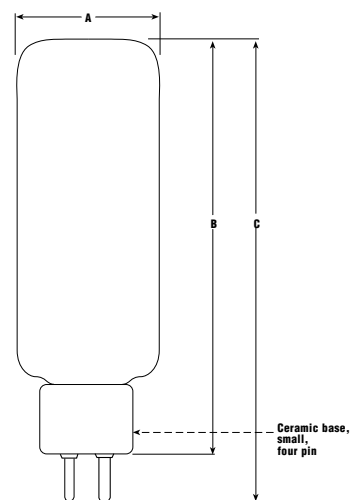
Mechanical

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

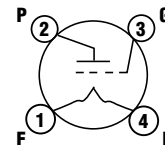
Svetlana Outline drawing



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.



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Svetlana SV572-3 Low-Mu Audio Power Triode



Typical Operation, Class A₂, Audio Amplifier

Plate voltage	750	V
Grid voltage	-115	V
Peak grid-to-grid drive	360	VP-P
DC Plate current, zero signal	140	mA
DC Plate current, max signal	170	mA
Effective load resistance	5000	ohms
Power output at 5% distortion	25	W

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

Plate voltage	1000	V
Grid voltage	-200	V
Peak grid-to-grid drive	460	VP-P
DC Plate current, zero signal*	200	mA
DC Plate current, max signal	310	mA
Effective load resistance (plate to plate)	8000	ohms
Power output at 5% distortion	75	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 572-3 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

