

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.

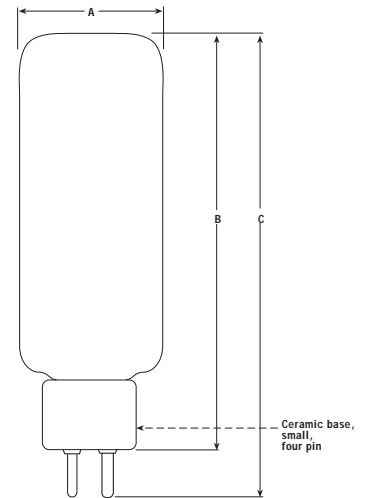
Features:

- 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

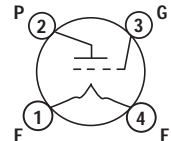
Electrical	
Filament:	Thoriated-tungsten
Voltage (AC or DC)	6.3 ± 0.3 V
Current	4 A
Amplification factor (nominal)	9.5
Transconductance (nominal)	4500 μS
Plate resistance (nominal)	2100 ohms
Interelectrode capacitances (typical), with filament grounded:	
Grid to plate	5 pF
Grid to filament	6.4 pF
Mechanical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



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Typical Operation, Single Tube, Class A

Class of Operation	A2	A2	
DC plate voltage	500	1000	V
Grid voltage	-18	-61	V
Peak grid drive	120	325	VP-P
DC Plate current, zero signal	80	100	mA
DC Plate current, max signal	110	150	mA
Plate load resistance	5000	5000	ohms
Distortion at max output	1.0	5.0	%
Power output at distortion above	9.5	46.0	W

Typical Operation, Push Pull, Two Tubes

Class of Operation	AB2	AB2	
DC Plate voltage	450	1000	V
Grid voltage	-22	-70	V
Peak grid drive, grid-to-grid	320	440	VP-P
DC Plate current, zero signal	150	200	mA
DC Plate current, max signal	240	280	mA
Plate load resistance	9600	9600	ohms
Distortion at max output	3.0	5.0	%
Power output at distortion above	30	88	W

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

Note: The 572-10 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

