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.

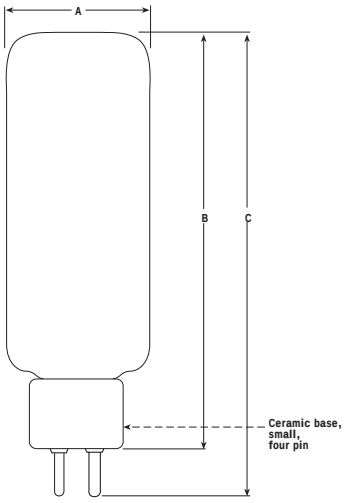
Features:

- 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*	
Tranconductance (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- plane	*Axis vertical, base down or horizontal w/pins 1 and 4 in vertical (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*

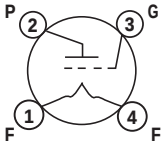
Svetlana Outline drawing



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
2 Plate
3 Grid
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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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 similiar products as follows:

TUBE	*μ*
SV572-3	*3.5*
SV572-10	*10*
SV572-30	*30*
SV572-160	*160*