SVETLANA TECHNICAL DATA
SV572-160
High Performance Audio Power Triode

The Svetlana™ SV572-160 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 SV572-160 has a plate dissipation of 125 watts maximum, and is intended for audio applications where triodes of the 811A type are normally used, while giving superior performance.

Characteristics

Electrical

Filament:	*Thoriated-tungsten*	
Voltage (AC or DC)	*6.3 ± 0.3*	*V*
Current	*4*	*A*
Amplification factor (nominal)	*160*	
Tranconductance (nominal)	*9000*	*µS*
Plate resistance (nominal)	*17, 000*	*ohms*
Interelectrode capacitances (typical), with filament grounded:		
Grid to plate	*8*	*pF*
Grid to filament	*7*	*pF*

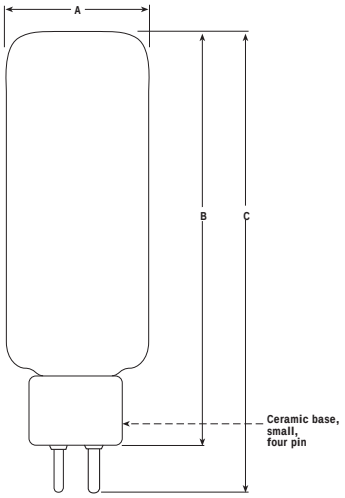
Mechanical

Cooling	*Radiation and convection*
Base	*Ceramic, four pin, small*
Basing diagram	*JEDEC 4D*
Socket	*Svetlana SK4A or equivalent*
Operating position- 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

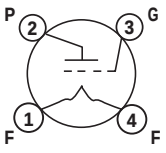
DC plate voltage	*1000*	*V*
Maximum-signal DC plate current	*210*	*mA*
Plate Dissipation	*125*	*W*
Grid Current	*50*	*mA*

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, Class A_2, Single Tube		
DC Plate voltage	*1000*	*V*
Grid voltage	*+5*	*V*
Peak grid-to-grid drive	*80*	*VP-P*
DC Plate current, zero signal	*50*	*mA*
DC Plate current, max signal	*70*	*mA*
Plate load resistance	*10,000*	*ohms*
Distortion at max output	*5.0*	*%*
Power output at distortion above	*15.3*	*W*
Typical Operation, Class AB_2, Push-Pull, Two Tubes		
DC Plate voltage	*1000*	*V*
Grid voltage	*+5*	*V*
Peak grid-to-grid drive	*300*	*VP-P*
DC Plate current, zero signal	*50*	*mA*
DC Plate current, max signal	*85*	*mA*
Plate load resistance	*9600*	*ohms*
Distortion at max. output	*10.0*	*%*
Power output at distortion above	*32*	*W*

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

Note: The 572-160 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*