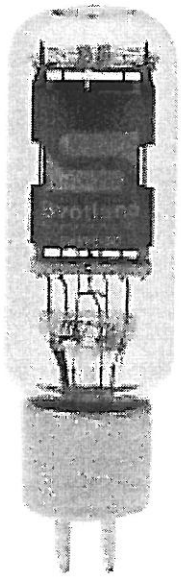


SVETLANA TECHNICAL DATA
SV572-30
Medium-Mu Audio Power Triode

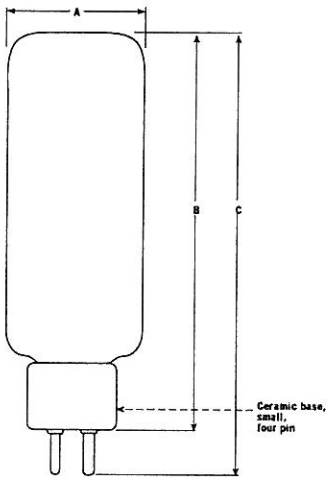
The Svetlana™ SV572-30 is a power triode intended for use in class A, AB, or B audio amplifiers. It features:

- 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 SV572-30 has a plate dissipation of 125 watts maximum, making it useful in applications where a triode such as 812A or 8005 would normally be used, while having no plate cap and a smaller physical size than the old types.

Characteristics

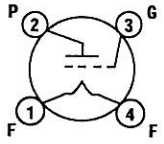
Electrical		
Filament:	*Thoriated-tungsten*	
Voltage (AC or DC)	*6.3 ± 0.3*	*V*
Current	*4*	*A*
Amplification factor (nominal)	*29.5*	
Tranconductance (nominal)	*6500*	*µS*
Plate resistance (nominal)	*4600 ohms*	
Interelectrode capacitances (typical), with filament grounded:		
Grid to plate	*8*	*pF*
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
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 SV572-30
Medium-Mu Audio Power Triode

Svetlana
ELECTRON DEVICES

Typical Operation, Single, Class A			
Class of Operation	A2	A2	
DC plate voltage	500	1000	V
Grid voltage	+5	0	V
Peak grid drive	110	175	VP-P
DC Plate current, zero signal	60	100	mA
DC Plate current, max signal	80	150	mA
Plate load resistance	10,000	10,000	ohms
Distortion at max output	5.0	10.0	%
Power output at distortion above	9	29	W
Typical Operation, Push-Pull, Two Tubes			
Class of Operation		AB2	
DC Plate voltage		1000	V
Grid voltage		-10	V
Peak grid drive, grid-to-grid		320	VP-P
DC Plate current, zero signal		150	mA
DC Plate current, max signal		230	mA
Plate load resistance		9600	ohms
Distortion at max output		5.0	%
Power output at distortion above		78	W

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

Note: The 572-30 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