

SVETLANA TECHNICAL DATA

SV572-30

Medium-Mu Audio Power Triode

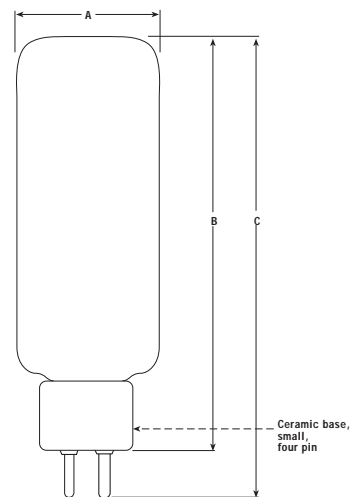


- T**he Svetlana™ SV572-30 is a power triode intended for use in class A, AB, or B audio amplifiers. It features:
- Directly heated thoriated tungsten filament for soft glow and warm sound
 - Hard glass envelope with white ceramic base
 - Low microphonic construction with ceramic internal spacers
 - 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
Transconductance (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

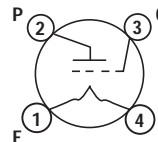
Svetlana Outline drawing



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 | 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 SV572-30 Medium-Mu Audio Power Triode



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 similar products as follows:

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

