

# SVETLANA TECHNICAL DATA

## SV572-30

### Medium-Mu Audio Power Triode



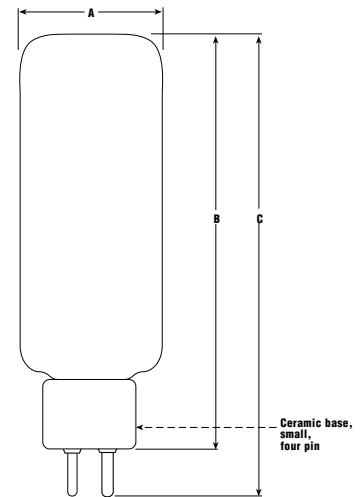
The Svetlana™ SV572-30 is a power triode intended for use in class A, AB, or B audio amplifiers. It features:

- 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
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

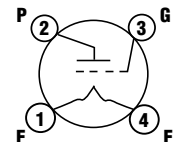
#### Svetlana Outline drawing



#### 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.



**Svetlana**  
ELECTRON DEVICES

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# Svetlana SV572-30 Medium-Mu Audio Power Triode



## Typical Operation, Class A<sub>2</sub>, Audio Amplifier, single-ended

Plate voltage	750	V
Grid voltage	+5	V
Peak grid-to-grid drive	104	VP-P
DC Plate current, zero signal	145	mA
DC Plate current, max signal	200	mA
Effective load resistance	5000	ohms
Distortion at 1 watt into 8 ohms	0.45%	
Power output at 5% distortion	40	W

## Typical Operation, Class AB<sub>2</sub>, Audio Amplifier (Values for two tubes)

Plate voltage	1000	V
Grid voltage	-8	V
Peak grid-to-grid drive	195	VP-P
DC Plate current, zero signal	200	mA
DC Plate current, max signal	360	mA
Effective load resistance (plate to plate)	8000	ohms
Power output at 5% distortion	150	W

\* Note: graphite anode glows red near rated power.

Note: Allow for contact potential in bias voltage adjustment

Two Svetlana logos are imprinted on the glass envelope centered over pins 1-2 and 3-4 respectively

Note: The 572-30 is one product in a series of four similar products as follows:

TUBE	$\mu$
SV572-3	3.5
SV572-10	10
SV572-30	30
SV572-160	160

