

# SVETLANA TECHNICAL DATA

## SV572-30

### Medium-Mu Audio Power Triode

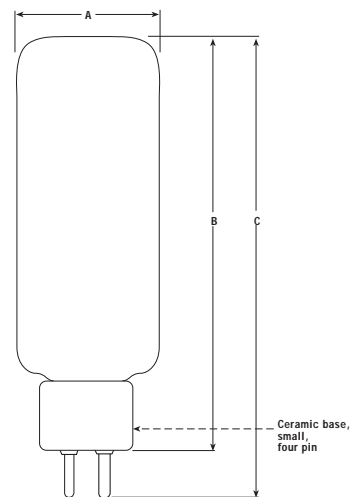


- T**he Svetlana™ SV572-30 is a power triode intended for use in class A, AB, or B audio amplifiers. It features:
- Directly heated thoriated tungsten filament for soft glow and warm sound
  - Hard glass envelope with white ceramic base
  - Low microphonic construction with ceramic internal spacers
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

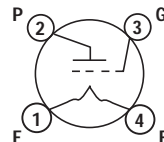
| Electrical   |                             |
|--|-----------------------------|
| Filament:  | Thoriated-tungsten          |
| Voltage (AC or DC)   | 6.3 ± 0.3 V                 |
| Current  | 4 A                         |
| Amplification factor (nominal)   | 29.5                        |
| Transconductance (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



**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 similar products as follows:

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

