

SVETLANA TECHNICAL DATA

SV83

Audio Power Pentode



The Svetlana™ SV83 is a miniature glass-envelope power pentode intended for use as a driver or output device in high-quality audio amplifiers. Features include plate dissipation 12 watts; low distortion; high transconductance; internally shielded for low hum pickup; and pinout compatibility—EL84 can be used in an SV83 circuit without modification. The highly linear SV83 is similar to the EL84 with the exception of basing connections and screen-grid ratings.

Characteristics

Electrical

Cathode	Oxide-coated, unipotential
Heater voltage (AC or DC)	6.3 volts AC or DC (± 0.6 volts)
Heater current	760 mA ± 60 mA
Heater-cathode voltage	± 100 volts peak
Amplification factor (nominal)	25
Transconductance (nominal)	15,000 μ S
Interelectrode capacitances (typical), with cathode grounded:	
Grid to cathode	13.5 pF
Anode to cathode	7.0 pF
Grid to anode	0.07 pF

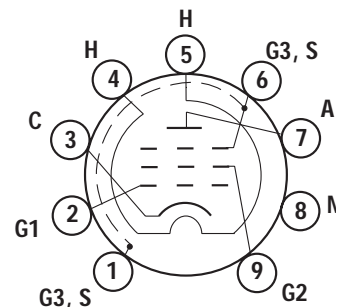
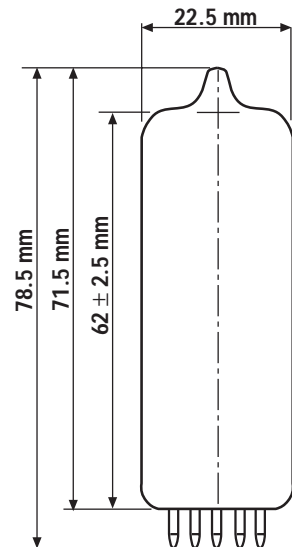
Mechanical

Base	standard 9-pin miniature, glass button
Basing diagram	see below
Socket	standard 9-pin miniature
Operating position	Any (vertical for convection cooling)
Nominal dimensions:	
Height of glass envelope	71.5 mm (2.81 in.)
Diameter of glass envelope	22.5 mm (.89 in.)
Overall height	78.5 mm (3.09 in.)
Net weight	20 g (.71 oz.)

Maximum ratings

Anode voltage, DC	300 V
Anode dissipation	12 W
Screen voltage, DC	200 V
Screen dissipation	1.5 W
Cathode current, continuous	90 mA
Grid voltage	-450 V
Maximum grid-circuit resistance (self-bias)	1 megohm
Envelope temperature	200° C

Svetlana Outline drawing



Svetlana
ELECTRON DEVICES

Headquarters:

8200 South Memorial Parkway
Huntsville, AL 35802
USA
Phone: 205 882 1344
Fax: 205 880 8077

Marketing & Engineering:

3000 Alpine Road
Portola Valley, CA 94028
USA
Phone: 415 233 0429
Fax: 415 233 0439

www.svetlana.com

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