

SVETLANA TECHNICAL DATA SV811-10A High Performance Audio Power Triode



he Svetlana[™] SV811-10A is a power triode intended for use in class A, AB, or B audio amplifiers. It is one of the lowest distortion tubes ever made. **Features:**

- Directly heated thoriated tungsten filament for soft glow and warm sound
- Transmitting tube design, hard glass envelope with white ceramic base
- Low microphonic construction with ceramic internal spacers and mica supports
- Excellent gettering system
- Superb aesthetic appearance

Characteristics

Electrical

Filament:	Thoriated-tun	gsten		
Voltage (AC or DC)	6.3 ± 0.3	V		
Current	4	Α		
Amplification factor (nominal)	9.5			
Tranconductance (nominal)	3800	μS		
Plate resistance (nominal)	2500	ohms		
Interelectrode capacitances (typical), with filament ground	ded:			
Grid to plate	8	рF		
Grid to filament	7	рF		
Mechanical				
Cooling	Radiation and convection			
Base	Ceramic, four pin, small			
Basing diagram	JEDE	C 4D		
Socket	Svetlana SK4A or equivalent			
Operating position- Axis vertical, base down or horizonta	al w/pins 1 and 4 in vertica	1		
plane (Adequate surrounding clearance	for cooling must be mainta	nined)		
Nominal dimensions:				
Diameter	45.7 mm (1.	8 in.)		
Base to top	127 mm (5	5.0 in)		
Overall height	138.2 mm (5.4	!4 in.)		
Net weight		100 g		
Maximum ratings				
DC plate voltage	800	V		
Maximum-signal DC plate current	160	mА		
Plate Dissipation	65	W		
Grid Current	50	mА		



Svetlana Outline drawing

Dimensic	onal Data	
Dim.	Millimeters	Inches
A	45.7	1.80
В	127	5.00
С	138.2	5.44

Base pin connections bottom view



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 while showing small red spots, without decreasing lifetime, as long as dissipation is kept below 65 watts.





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Typical Operation, Single Tube, Class A

Spread operation, emgre same, enaces			
DC plate voltage	450	800	V
Grid voltage	-9	-45	V
Peak grid drive	110	127	V P-P
DC Plate current, zero signal	80	80	mА
DC Plate current, max signal	100	91	mА
Plate load resistance	5000	5000	ohms
Distortion at max output	1.0	1.0	%
Power output at distortion above	8.3	13.4	W
Typical Operation, Push-Pull, Two Tubes, Class AB ₂			
DC plate voltage	450	800	V
DC grid voltage	-16.5	-51	V
Peak grid-to-grid drive	360	420	V P-P
DC Plate current, zero signal (per tube)	150	150	mА
DC Plate current, max signal (per tube)	250	260	mА
Plate load resistance	9600	9600	ohms
Distortion at max output	3.0	3.0	%
Power output at distortion above	41	91	W

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

