

SVETLANA TECHNICAL DATA SV811-3A Low-Mu Audio Power Triode

he Svetlana[™] SV811-3A 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
- Titanium 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)	3.5				
Tranconductance (nominal)	1700	μS			
Plate resistance (nominal)	2000	2000 ohms			
Interelectrode capacitances (typical), with filament ground	nded:				
Grid to plate	8	pF			
Grid to filament	7	pF			
Mechanical					
Cooling	Radiation and convection				
Base	ase Ceramic, four pin, small				
Basing diagram	Basing diagram JEDEC 4D				
Socket	Svetlana SK4A or equiv	alent			
Operating position- Axis vertical, base down or horizor	ntal w/pins 1 and 4 in vertica	I			
plane (maintain at least 4 inches c	learance from other compor	ients)			
Nominal dimensions:					
Diameter	45.7 mm (1.	8 in.)			
Base to top	127 mm (5	i.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					
Plate Dissipation	65	W			
Grid Current	50	mА			



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Svetlana Outline drawing



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

Base pin connections bottom view



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 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

Class of Operation	A1	A1	A2			
DC plate voltage	450	800	450	V		
Grid voltage	-65	-165	-65	V		
Peak grid drive	130	30	280	V P-P		
DC plate current, zero signal	80	80	80	mА		
DC plate current, max signal	83	90	105	mА		
Plate load resistance	5000	5000	5000	Ohms		
Distortion at max output	0.2	1.0	1.0	%		
Power output at distortion above	3.2	15.4	12.4	W		
Typical Operation, Audio Power Amplifier, Push-Pull, Two Tubes						
Class of Operation	AB1	AB1	AB2			
DC plate voltage	450	750	750	V		
Grid voltage	-80	-178	-178	V		
Peak grid drive, grid to grid	328	720	880	V P-P		
DC plate current, zero signal	150	150	150	тA		
DC plate current, max signal	155	215	238	тA		
Plate load resistance	9600	9600	9600	Ohms		
Distortion at max output	0.12	3.0	5.0	%		
Power output at distortion above	10	49	66	W		

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

