

SVETLANA TECHNICAL DATA SV300B Low-Mu Audio Power Triode

he Svetlana SV300B 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, and is a close duplicate of the original Western Electric[™] 300B.

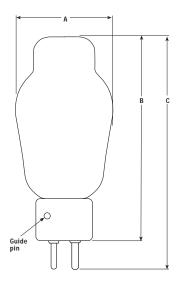
The Svetlana SV300B uses ultra-pure carbonized nickel plate material and a proprietary oxide coating on the filament to give Western ElectricTM-like performance. The internal structure is well-supported and is aligned with respect to the base pins to avoid internal shorts in equipment designed for horizontal tube mounting. The filament is center-tapped to insure low hum.

The Svetlana SV300B is manufactured in Russia at the Svetlana factory in St. Petersburg. The strict manufacturing and quality controls at the Svetlana plant assure functionality and sound as good as Western ElectricTM manufactured products.

Characteristics

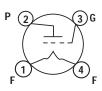
Electrical				
Filament:	Oxide-coated	Oxide-coated tungsten		
Voltage (AC or DC)	5.0±0.3	V		
Current	1.2	A		
Amplification factor	3.85			
Transconductance	5500	μS		
Plate resistance	700	ohms		
Interelectrode capacitances (typical), with fila	ament grounded :			
Grid to plate	15	pF		
Grid to filament	9	pF		
Mechanical				
Cooling	Radiation and co	Radiation and convection		
Base	standard sma	ll four pin		
Basing diagram	JE	JEDEC 4D		
Socket	Svetlana SK4A or e	Svetlana SK4A or equivalent		
Operating position:				
Axis vertical, base down or ho	rizontal with pins 1 and 4 in horizor	ntal plane		
Nominal dimensions:				
Diameter	59.0mm (2	2.3125 in)		
Base to top	137.2 mm (5	i.4063 in)		
Overall height	152.5 mi	m (6.0 in)		
Net weight		90 gm		
Maximum Ratings				
DC plate voltage	450	V		
Maximum signal DC plate current	100	mА		
Plate dissipation	40	W		

Svetlana Outline drawing



Dimensional Data			
Dim	. Millimeters	Inches	
A	59.0	2.3125	
C	152.5	6	
B	137.2	5.4063	

Base pin connections bottom view



1 Filament	3 Grid
2 Plate	4 Filament



CTRON DEVICES

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Svetlana SV300B Low-Mu Audio Power Triode

Svetlana ELECTRON DEVICES

Typical Operation, Class A, Audio Amplifier

Plate voltage	450	V	
Grid voltage	-100	V	
Peak grid drive	200	VP-P	
Plate current, no signal	60	mА	
Plate current, max signal	65	тA	
Effective load resistance	5500	ohms	
Distortion at 1 watt into 8 ohms	0.10	%	
Power output at 5% distortion	10	W	
*Notae: The internal structure is aligned with respect to the base pine to avoid internal			

*Notes: The internal structure is aligned with respect to the base pins to avoid internal shorting problems in equipment designed for horizontal mounting.

