

Svetlana SV6L6GC High Performance Audio Beam Power Tetrode

he Svetlana SV6L6GC is a glass envelope beam-power tetrode intended for high-power audio amplifier service. Close manufacturing specification tolerances and improved processing provide improved reliability and superior sonic performance. The Svetlana SV6L6GC is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for any 6L6 type.

The Svetlana SV6L6GC features:

- Design and construction based on the Sylvania 6L6GC/STR387
- Extra-rugged construction for use in music amplifiers--thick mica spacers and extra bracing reduce microphonic effects and resist mechanical and thermal shocks
- Increased peak cathode emission from new cathode materials
- Gold-plated grid and extended processing and aging for stability and reliability
- Tri-plate anode for superior dissipation
- Precise grid/screen alignment
- Comprehensive static and audio amplifier testing before and after aging
- May be operated in inverted position--base fits into socket clamps in Fender guitar amplifiers

General Characteristics

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	min	typ	max		
Heater Voltage (AC or DC)	5.7	6.3	6.9	V	
Heater Current @6.3V		0.9		Α	
Cathode:	oxide-coated, unipotential				
Cathode-to-heater potential			±200	V	
Direct interelectrode capacitances :					
Grid no. 1 to plate			0.6	рF	
Grid no. 1 to cathode, heater, grid	no. 2, and b	eam forming pla	ates 10	рF	
Plate to cathode, heater, grid no. 2	2, and beam	forming plates	6.5	рF	
Mechanical					
Operating position				Any	
Base	Large wafer octal 8-pin				
Basing diagram			JEDE	C 7AC	
Cooling	Radiation and convection				
Envelope temperature (max)				250 C	
Nominal dimensions:					
Diameter	38.8mm (1.528 in.)				
Base to top	93mm (3.605 in.)				
Overall height			108mm (4.2	252 in.)	
Diameter of base	34mm (1.339 in.)				
Net weight	65 grams				
Maximum ratings					
DC plate voltage VP			500	V	
Screen grid voltage Vg2			500	V	
Plate Dissipation			30	W	
Screen Grid Dissipation			5	W	



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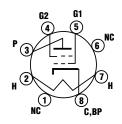
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Svetlana SV6L6GC Outline drawing



Base pin connections bottom view



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Typical Operation ,	Class A.	Audin Power	Amnlifier.	Sinale T	uhe (Connection
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	tetrode	triode						
DC plate voltage	350	250	V					
Screen grid voltage	250		V					
Control grid bias voltage	-18	-20	V					
Peak AF grid voltage	18	20	V					
Zero-signal plate current	54	40	mA					
Maximum-signal plate current	66	44	mA					
Zero-signal screen grid current	2.5		mA					
Maximum-signal screen current	7		mA					
Plate resistance (approx)	33000	1700	ohms					
Transconductance (approx)	5200	4700	μS					
Load Resistance	4200	5000	ohms					
Total harmonic distortion	15	5	%					
Maximum signal power output	10.8	1.4	W					
Typical Operation, Class AB ₁ , Audio Power Amplifier (Values for two tubes)								
DC plate voltage		450	V					
Screen grid voltage		400	V					
Control grid bias voltage		-37	V					
Peak AF grid-to-grid voltage		70	V					
Zero-signal plate current		116	mA					
Maximum-signal plate current		210	mA					
Zero-signal screen grid current		5.6	mA					
Maximum-signal screen current		22	mA					
Load Resistance, plate-to-plate		5600	ohms					
Total harmonic distortion		1.8	%					
Maximum signal power output		55	W					

