

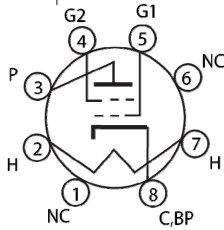
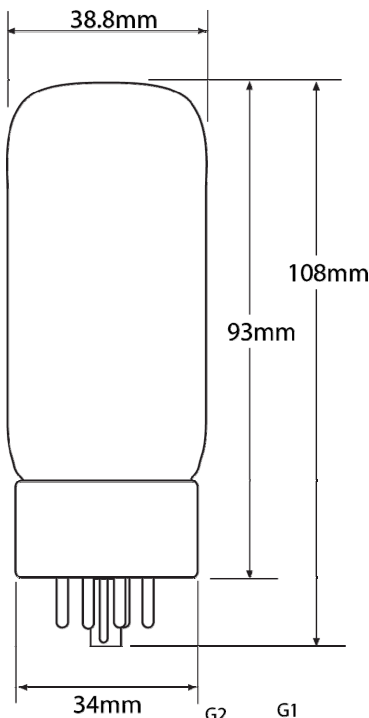
Svetlana 6L6GC

High Performance Audio Beam Power Tetrode



The Svetlana 6L6GC is a glass envelope beam-power tetrode intended for highpower audio amplifier service. Close manufacturing specification tolerances and improved processing provide improved reliability and superior sonic performance. The Svetlana 6L6GC is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for any 6L6 type.

The Svetlana 6L6GC 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.



Electrical

Heater	Min	Nom	Max	
Voltage(AC,DC)	5.7	6.3	6.9	V
Current		0.9		A
Cathode	Oxide-coated, unipotential			
Cathode-to-heater potential			±200	V
Direct interelectrode capacitances				
Grid1 to cathode, grid2, beam forming plates and heater			10	pF
Plate to cathode, grid2, beam forming plates and heater			6.5	pF
Grid1 to plate			0.6	pF

Maximum Ratings

DC plate voltage	500	V
Grid2(screen) DC voltage	500	V
Plate dissipation	30	W
Grid2 DC screen dissipation	5	W
Envelope temperature	250	°C

Typical Operation

Audio Power Amplifier, Class A (single tube)

	Tetrode	Triode	
DC plate voltage	350	250	V
Grid2(screen) DC voltage	250		V
Grid1(control) voltage**	-18	-20	V
Peak AF grid1 control voltage	18	20	V
Zero signal plate current	54	40	mA
Max signal plate current	66	44	mA
Zero signal grid2 screen current, DC	2.5		mA
Max signal grid2 screen current	7		mA
Transconductance(approx)	5,200	4,700	μS
Plate resistance(approx)	33,000	1,700	Ω
Load resistance	4,200	5,000	Ω
Total harmonic distortion	15	5	%
Max output power	10.8	1.4	W

Typical Operation

Audio Power Amplifier, Class AB1 (two tubes)

DC plate voltage	450	V
Grid2(screen) DC voltage	400	V
Grid1(control) voltage**	-37	V
Peak AF grid to grid voltage	70	V
Zero signal plate current	116	mA
Max signal plate current	210	mA
Zero signal grid2 screen current, DC	5.6	mA
Max signal grid2 screen current	22	mA
Load resistance, plate-to-plate	5,600	Ω
Total harmonic distortion	1.8	%
Max output power	55	W

