



SVETLANA SV6L6GC

HIGH PERFORMANCE AUDIO BEAM POWER TETRODE

Beam power tube, octal base. Rugged version of 6L6GC, 30-watt dissipation, suitable for use in guitar amps or high-end audio. Designed to be operated upside-down in guitar amps.

Electrical

Heater	Min	Nom	Max	
Voltage (AC or DC)	5.7	6.3	6.9	V
Current		0.9		A
Cathode	oxide-coated, unipotential			
Cathode-to-heater potential	±200			
Direct interelectrode capacitances :				
Grid 1 to plate				0.6
Grid 1 to cathode, heater, grid 2, and beam forming plates				10
Plate to cathode, heater, grid 2, and beam forming plates				6.5

Maximum Ratings

DC plate voltage	500	V
Grid 2 DC (screen) voltage	500	V
Plate dissipation	30	W
Grid 2 (screen) dissipation	5	W

Typical Operation, Class A, Audio Power Amplifier, Single Tube

	Tetrode	Triode	
DC plate voltage	350	250	V
Grid 2 DC (screen) voltage	250	—	V
Grid 1 DC (control) voltage	-18	-20	V
Peak AF grid 1 (control) voltage	18	20	V
Zero-signal plate current	54	40	mA
Maximum-signal plate current	66	44	mA
Zero-signal grid 2 (screen) current	2.5	—	mA
Maximum-signal grid 2 (screen) current	7	—	mA
Plate resistance (nominal)	33000	1700	Ω
Transconductance (nominal)	5200	4700	μS
Effective load resistance	4200	5000	Ω
Total harmonic distortion	15	5	%
Maximum signal power output	10.8	1.4	W

Typical Operation, Class AB1, Audio Power Amplifier (Values for two tubes)

DC plate voltage	450	V
Grid 2 DC (screen) voltage	400	V
Grid 1 (control) 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 grid 2 (screen) current	5.6	mA
Maximum-signal grid 2 (screen) current	22	mA
Effective load resistance, plate-to-plate	5600	Ω
Total harmonic distortion	1.8	%
Maximum signal power output	55	W

