



## **6L6GC BEAM POWER TETRODE**

The Svetlana™ SV6L6GC is a beam power tetrode having a standard octal base and glass envelope. With a gold-plated molybdenum alloy grid and carbon-coated screen grid, the Svetlana SV6L6GC is the finest power tube of its type being manufactured today. All ratings of the Svetlana SV6L6GC meet or exceed those of the original version; top-quality cathode materials and extensive aging yield outstanding performance in high-fidelity and musical-instrument amplifiers. The Svetlana SV6L6GC is made exclusively at the Svetlana Electron Devices factory in St. Petersburg, Russia, and is marketed worldwide by PM Components Ltd. and in the USA by PM of America Inc.



### TYPICAL MECHANICAL AND ELECTRICAL PARAMETERS

Exact replacement for:	6L6GC, 6L6GA, 6L6GB, 6L6G, 6L6, 1614, 5881, 5932, 7581
Heater:	6.3v AC or DC, 0.9 amps
Cathode:	oxide-coated high-purity nickel sleeve
Capacitances:	
control grid to anode	0.7 pF
control grid to cathode	12 pF
Mounting and basing	std octal, device operable in any position (keep adjacent tubes separated by 2.5 in. minimum)
Height	110 mm (4.4 in)
Diameter	40 mm (1.6 in)
Mass	68 g (2.4 oz)

### ABSOLUTE MAXIMUM RATINGS

HEADQUARTERS:  
1687 Shelby Oaks Drive  
Suite 8  
Memphis, TN 38134  
Phone: 901-388-2424  
Fax: 901-388-2405

CERAMIC TUBE DIVISION:  
895 B. Street PMB #481  
Hayward, CA 94541  
Phone / Fax: 510-885-1247



Cathode-heater maximum DC voltage	+200v
Allowable spot temperature on envel.	250 degrees C
Plate voltage, DC (at idle)	520 v
Plate voltage, DC, in triode connection	480 v
Screen voltage, DC, at idle	520 v
Control grid voltage, DC, at idle	-350 v
Cathode current, DC, at idle	120 mA
Plate dissipation, peak or idle	32 watts
Screen grid dissipation, peak or idle	6 watts
Control grid resistance, fixed bias	100k ohms
Control grid resistance, cathode bias	500k ohms
TYPICAL OPERATION	

Class A one tube, cathode bias

	tetrode connection			triode conn
Vp:	200 v	250	300	250
Vscr:	200 v	250	200	-
Cathode resistor:	186 ohms	167	218	490
Ip idle:	55 mA	75	51	40
Ip max:	56 mA	78	54.5	42
Iscr idle:	4.2	5.4	3	-
Iscr max:	5.6	7.2	4.6	-
Load:	3000 ohms	2500	4500	6000
Pout:	4 watts	6.5	6.5	1.3
THD (approx):	9%	10	11	6

Push-pull class A1 tetrode connection (ratings for both tubes together)

	fixed bias	cathode bias
Vp:	270 v	270
Vscr:	270 v	270
Grid bias or res.	-17.5 v	124 ohms
Ip idle:	134 mA	134
Ip max:	155	145
Iscr idle:	11 mA	11
Iscr max:	17 mA	17
Load:	5000 ohms	5000
Pout:	17.5	18.5
THD (approx)	2%	2%

Class AB1 tetrode connection, fixed bias

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Vp:	450 v
Vscr:	400 v
Grid bias or res.	-37 v
Ip idle:	116 mA
Ip max:	210
Iscr idle:	5.6 mA
Iscr max:	22 mA
Load:	5600 ohms
Pout:	55
THD (approx)	1.8%

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