

SVETLANA TECHNICAL DATA

GP-5 Beam Triode



The Svetlana™ GP-5 is a glass-envelope beam power triode intended for use as a shunt regulator or pulse modulator in high-voltage systems. It features anode operating voltage of 30 kV and a plate dissipation of 37.5 watts. Originally intended for color-TV voltage stabilization, the GP-5 is similar to the Telefunken ED500 and may be used to retrofit equipment which uses the American type 6BK4 or other high-voltage beam triodes.

Characteristics

Electrical

Cathode	<i>oxide-coated, unipotential</i>	
Voltage (AC or DC)	6.3 (± 0.6)	V
Current	210 (± 20)	mA
Heater-cathode voltage, peak	±200	V
Amplification factor (nominal)	2750	
Transconductance (nominal)	700 μ S	
<i>Interelectrode capacitances (typical), with cathode grounded:</i>		
Input	4.0	pF
Output	1.5	pF
Feedback	≤ 0.1	pF

Mechanical

Base	<i>standard magnoval, glass button</i>
Basing diagram	<i>see below</i>
Socket	<i>Svetlana SK509 or similar</i>
Anode cap	<i>approx. 3/8 in (9 mm) diameter</i>
Anode connector	<i>same as 6BK4 or 807</i>
Operating position	<i>Any (vertical for convection cooling)</i>

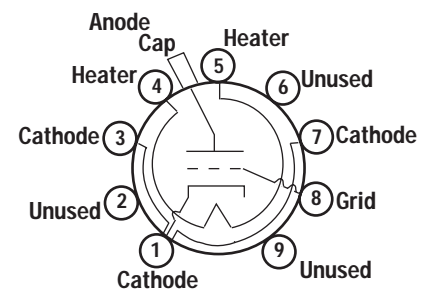
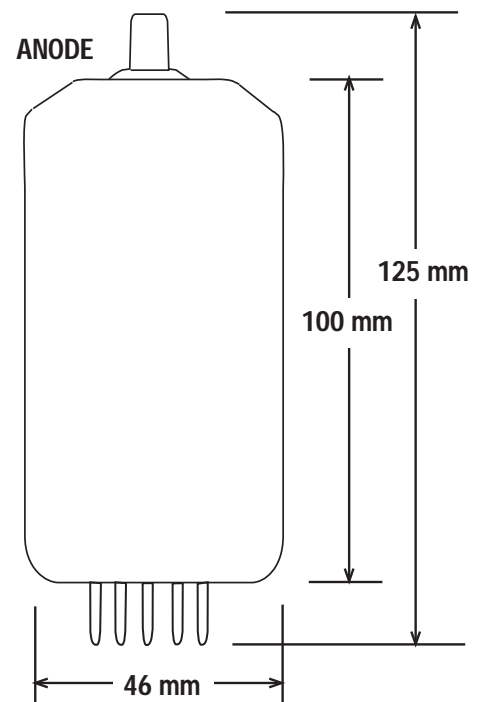
Nominal dimensions:

Height of glass envelope	100 mm (3 7/8 in.)
Diameter of glass envelope	46 mm (1 3/4 in.)
Overall height	125 mm (4 7/8 in.)
Net weight	115 g

Maximum ratings

Anode voltage	30,000	V
Anode dissipation	37.5	W
Anode current, continuous	2.0	mA
Grid voltage	-450	V
Maximum grid-circuit resistance	3	megohms
Envelope temperature	250	°C

Svetlana Outline drawing



Svetlana
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