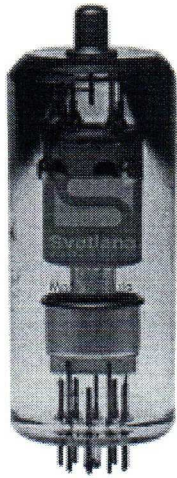


SVETLANA TECHNICAL DATA

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	oxide-coated, unipotential	
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	
Interelectrode capacitances (typical), with cathode grounded:		
Input	4.0	pF
Output	1.5	pF
Feedback	≤ 0.1	pF

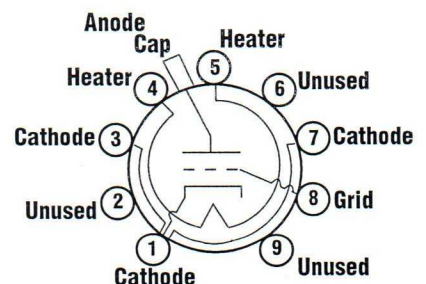
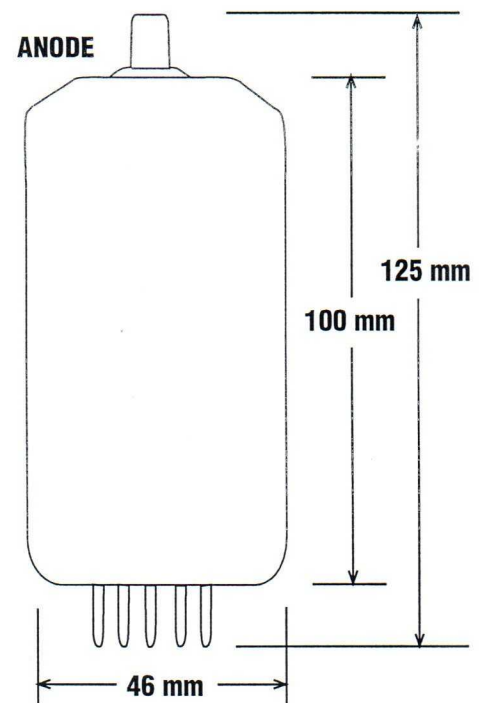
Mechanical

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

Headquarters:

8200 South Memorial Parkway
Huntsville, AL 35802
USA
Phone: 205 882 1344
Fax: 205 880 8077

Marketing & Engineering:

3000 Alpine Road
Portola Valley, CA 94028
USA
Phone: 415 233 0429
Fax: 415 233 0439

www.svetlana.com

1/98

Svetlana GP-5 Beam Triode

