

SVETLANA TECHNICAL DATA

6N1P Dual Audio Triode



The Svetlana™ 6N1P is a miniature glass-envelope small-signal dual triode intended for use as a line-level amplifier or driver in high-quality audio amplifiers. Except for higher heater-current consumption, it is a direct plug-in replacement for the 6DJ8, ECC88 or 6922 in most high-level audio applications. Features include very low distortion—optimized for line stages; medium transconductance; internally shielded between sections, allowing their use at differing signal levels; higher plate-voltage and dissipation rating than 6DJ8 types; and larger cathode than 6DJ8 types, giving it longer life and more transient current capability.

Characteristics

Electrical

Cathode	Oxide-coated, unipotential	
Heater voltage (AC or DC)	6.3 volts AC or DC (± 0.6 volts)	
Heater current	600 mA $\pm$ 35 mA	
Heater-cathode voltage	± 100 volts peak	
Amplification factor (nominal)	33	
Transconductance (nominal)	7500	μS
Plate resistance (nominal)	4400	ohms
Interelectrode capacitances (typical), per section, with cathode grounded:		
Grid to cathode	3.2	pF
Anode to cathode	1.5	pF
Grid to anode	1.6	pF

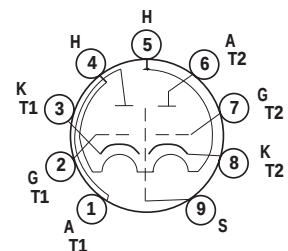
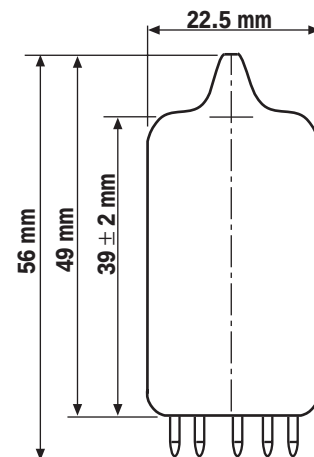
Mechanical

Base	standard 9-pin miniature, glass button	
Basing diagram	JEDEC 9AJ	
Socket	9-pin miniature	
Operating position	Any	
Nominal dimensions:		
Height of glass envelope	49 mm	(1.93 in.)
Diameter of glass envelope	22.5 mm	(.88 in.)
Overall height	56 mm	(2.20 in.)
Net weight	15 g	(.50 oz.)

Maximum ratings

Anode voltage, DC	250	V
Anode dissipation, per triode	2.2	W
Cathode current, continuous, per triode	20	mA
Maximum grid-circuit resistance	0.5	megohm

Svetlana Outline drawing



Svetlana
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