

# SVETLANA TECHNICAL DATA

## 6N1P

### Dual Audio Triode



**T**he 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 ( $\pm 0.6$ volts)	
Heater current	600 mA $\pm$ 35 mA	
Heater-cathode voltage	$\pm 100$ volts peak	
Amplification factor (nominal)	33	
Transconductance (nominal)	7500	$\mu S$
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

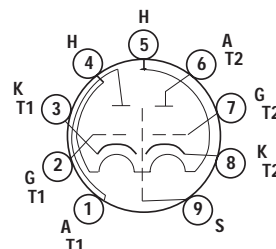
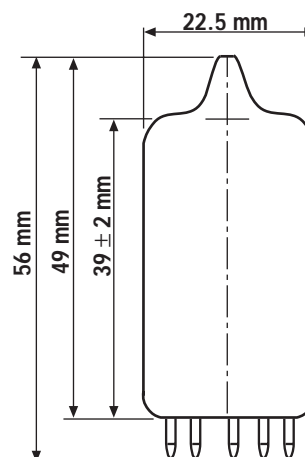
##### Mechanical

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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