

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 μ 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 |

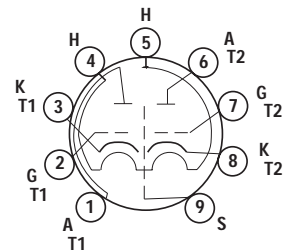
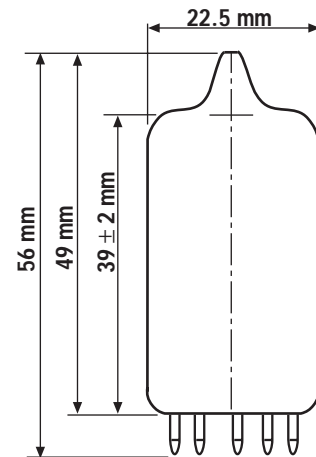
Mechanical

| | |
|----------------------------|----------------------------------------|
| 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



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