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 ± 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 (0.88 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 6N1P
Dual Audio Triode

Svetlana 6N1P
Typical Plate Characteristics, per section

Plate Current

PLATE CURRENT (MILLIAMPERES)

PLATE VOLTAGE (VOLTS)