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 µS
- **Interelectrode capacitances (typical), with cathode grounded**:
  - Input: 4.0 pF
  - Output: 1.5 pF
  - Feedback: ≤ 0.1 pF

**Mechanical**
- **Base**: standard magnovar, 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

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**Svetlana Outline drawing**

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**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
Svetlana GP-5 Beam Triode

Svetlana GP-5 Beam Triode
Typical Characteristics

Plate voltage: 30kV, 25kV, 20kV, 15kV, 10kV

GRID VOLTAGE

PLATE CURRENT, mA

Plate voltage: 30kV, 25kV, 20kV, 15kV, 10kV

0 1.0 2.0

-12 -10 -5 0