The 6BJ6 is a miniature, remote-cutoff pentode designed primarily for use as a high-gain radio-frequency or intermediate-frequency amplifier. Features include low grid-plate capacitance, relatively high transconductance, and low heater current.

**GENERAL**

**ELECTRICAL**
- Cathode—Coated Unipotential
- Heater Voltage, AC or DC: 6.3 Volts
- Heater Current: 0.15 Amperes

**Direct Interelectrode Capacitances**
- Grid-Number 1 to Plate, maximum: 0.0035 μf
- Input: 4.5 μf
- Output: 5.5 μf

**MECHANICAL**
- Mounting Position—Any
- Envelope—T-5 1/2, Glass
- Base—E7-1, Miniature Button 7-Pin

**MAXIMUM RATINGS**

**DESIGN-CENTER VALUES**
- Plate Voltage: 300 Volts
- Screen-Supply Voltage: 300 Volts
- Screen Voltage—See Screen Rating Chart
- Positive DC Grid-Number 1 Voltage: 0 Volts
- Negative DC Grid-Number 1 Voltage: 50 Volts
- Plate Dissipation: 3.0 Watts
- Screen Dissipation: 0.6 Watts
- Heater-Cathode Voltage
  - Heater Positive with Respect to Cathode: 90 Volts
  - Heater Negative with Respect to Cathode: 90 Volts

**CHARACTERISTICS AND TYPICAL OPERATION**

**CLASS A 1 AMPLIFIER**
- Plate Voltage: 100 250 Volts
- Suppressor, Connected to Cathode at Socket: 100 100 Volts
- Grid-Number 1 Voltage: -1.0 1.0 Volts
- Plate Resistance, approximate: 0.25 1.3 Megohms
- Transconductance: 3650 3600 Micromhos
- Plate Current: 9.0 9.2 Milliamperes
- Screen Current: 3.5 3.3 Milliamperes
- Grid-Number 1 Voltage, approximate
  - Gm = 10 Micromhos: -20 -20 Volts

* With external shield (RETMA 316) connected to pin 7.