**6S27**

**DUPLEX-DIODE HIGH-MU TRIODE**

**SINGLE-ENDED METAL TYPE**

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**GENERAL DATA**

**Electrical:**

Heater, for Unipotential Cathode:
- Voltage: 6.3 ac or dc volts
- Current: 0.15 amp.

Direct Interelectode Capacitances-Triode Unit (Approx.):
- Grid to Plate: 1.1 μf
- Grid to Cathode: 2.6 μf
- Plate to Cathode: 2.8 μf

*With shell connected to cathode.*

**Mechanical:**

Mounting Position: Any
- Maximum Overall Length: 2-5/8"
- Maximum Seated Length: 2-1/16"
- Maximum Diameter: 1-5/16"
- Bulb: MT-8G
- Base: Small Wafer Octal 8-Pin
- Basing Designation for BOTTOM VIEW: 8Q

**TRIODE UNIT**

**Maximum Ratings, Design-Center Values:**

- **PLATE VOLTAGE:** 300 max. volts
- **PEAK HEATER-CATHODE VOLTAGE:**
  - Heater negative with respect to cathode: 90 max. volts
  - Heater positive with respect to cathode: 90 max. volts

**Characteristics - Class A1 Amplifier:**

- **Plate Voltage:** 100 250 volts
- **Grid Voltage:** -1 -3 volts
- **Amplification Factor:** 70 70
- **Plate Resistance (Approx.):** 61000 58700 ohms
- **Transconductance:** 1150 1200 μmhos
- **Plate Current:** 0.8 1 ma.

**Typical Operation - Resistance-Coupled Amplifier:**

Same as type 6Q7 in RESISTANCE-COUPLED AMPLIFIER CHART

**DIODE UNITS - Two**

Consideration of these units, including typical circuits and diode curves is given at the front of this section. Diode biasing of the triode unit of the 6S27 is not suitable.

**APRIL 1, 1946**

**TENTATIVE DATA**

**RCA VICTOR DIVISION**

**RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY**
$E_f = 6.3$ VOLTS