

MECHANICAL DATA

Bulb	T-5 1/2
Base	E7-1, Miniature Button 7-Pin
Outline	5-2
Basing	7FB
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ¹	12.6 Volts
Heater Current	150 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	30 Volts Max.
Heater Positive with Respect to Cathode	30 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate	1.8 μf
Input: g to (h + k)	2.2 μf
Output: p to (h + k)	1.0 μf
Diode Plate to Diode Plate	1.0 μf

RATINGS (Design Center Values)

Plate Voltage	30 Volts	Max.
Cathode Current	20 Ma	Max.
Grid Circuit Resistance	10 Megohms	Max.
Average Diode Current	1.0 Ma	Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier

Plate Voltage	12.6 Volts
Grid Voltage	0 Volts
Plate Current	750 μa
Transconductance	1200 μmhos
Amplification Factor	55
Plate Resistance	45000 Ohms
Average Diode Current with 10 volts Applied (Each Diode) ²	2.0 Ma

Resistance Coupled Amplifier

Plate Supply Voltage	12.6 Volts
Grid Voltage ³	
Grid Resistor	1.0 Megohm
Plate Load Resistor	1.0 Megohm
Input Capacitor	0.02 μf
Output Capacitor	0.01 μf
Grid Resistor of Following Stage	2.0 Megohms
Voltage Gain at 400 CPS ⁴	16

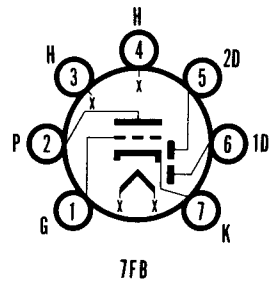
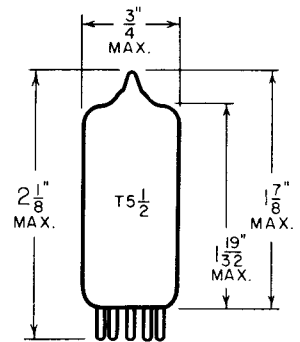
NOTES:

1. This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
2. Test condition only.
3. Contact potential developed across specified grid resistor.
4. Measured at an output voltage of 1.0 volt RMS.

QUICK REFERENCE DATA

The Sylvania Type 12EL6 is a miniature double diode, high mu triode intended for use as a second detector audio amplifier.

It is designed for operation where the heater and plate voltages are supplied directly from a 12 volt automotive storage battery.



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EMPORIUM, PA.**

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12EL6

AVERAGE PLATE CHARACTERISTICS

