MECHANICAL DATA
Bulb .............. T-5 3/4
Base ............... E7-1, Miniature Button 7-Pin
Outline ........... 5-2
Basing ............ 7BT
Cathode .......... Coated Unipotential
Mounting Position .... Any

ELECTRICAL DATA
HEATER CHARACTERISTICS
Heater Voltage .......................... 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 ......................... 2.0 µf
Input: g to (h + k) ..................... 2.2 µf
Output: p to (h + k) ................. 0.8 µf
Diode to Diode ....................... 0.9 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 A, 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 ................. 1.0 Megohm
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 CPS4 ........ 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 volts RMS.

SYLVANIA ELECTRIC PRODUCTS INC.
RADIO TUBE DIVISION
EMPORIUM, PA.
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AVERAGE PLATE CHARACTERISTICS

CURRENT IN MA

PLATE VOLTAGE

E' = RATED VALUE