SYLVANIA TYPE 12BR7
DUO DIODE TRIODE

MECHANICAL DATA

Bulb ........................................ T-61/4
Base ......................................... E9-1, Small Button 9-Pin
Outline ...................................... 6-2
Basing ....................................... 9CF
Cathode ...................................... Coated Unipotential
Mounting Position ........................ Any

ELECTRICAL DATA

HEATER CHARACTERISTICS
Heater Voltage Series/Parallel ............... 12.6/6.3 Volts
Heater Current ................................ 225/450 Ma
Heater-Cathode Voltage (Design Center Values)
Heater Negative with Respect to Cathode... 200 Volts Max.
Heater Positive with Respect to Cathode...
D.C. ............................................ 100 Volts Max.
Total D.C. and Peak ......................... 200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Shielded)\(^1\)
Triode Grid to Plate .......... 1.9 \(\mu\)F
Triode Input .......................... 2.8 \(\mu\)F
Triode Output ......................... 1.0 \(\mu\)F
Diode Input (Each Diode) .............. 2.0 \(\mu\)F

RATINGS (Design Center Values)
Plate Voltage (Triode) .................. 300 Volts Max.
Plate Dissipation (Triode) ............. 2.5 Watts Max.
Peak Inverse Diode Voltage ............ 300 Volts Max.
Peak Diode Current .................. 60 Ma Max.

CHARACTERISTICS AND TYPICAL OPERATION
Class A\(^1\) Amplifier
Plate Voltage ................................ 100 250 Volts
Cathode Bias Resistor ................. 270 200 Ohms
Amplification Factor .................. 60 60
Plate Resistance (approx.) ........ 15,000 10,900 Ohms
Transconductance .................. 4000 5500 \(\mu\)A/hr
Plate Current .......................... 3.7 10 Ma
Grid Voltage (approx.) for \(I_g = 10\ \mu\)A ........ -5 -12 Volts
Average Diode Current, Each Diode with 5.0 Volts D.C. Applied ........ 17 Ma

NOTE:
1. Shield No. 315.

APPLICATION

The Sylvania Type 12BR7 is a miniature high mu triode duo diode intended for application in monochrome and color television receivers.