MECHANICAL DATA

Bulb ........................................... ST-12
Base ............................................. Small 4-Pin, Phenolic
Outline .......................................... 12-6
Top Cap ........................................... C1-1
Basing ............................................ 4K

ELECTRICAL DATA

FILAMENT CHARACTERISTICS

Filament Voltage DC ........................... 0.90 Volts
Filament Current ................................ 35 Ma

TYPICAL OPERATION

DC Voltage Amplifier¹
Plate Supply Voltage (DC) .................... 45 Volts
Grid No. 2 Voltage (DC) ....................... 16.5 Volts
Grid No. 1 Voltage ............................. −1.6 Volts
Plate Load Resistor .......................... 100 Megohms
Plate Current (DC) ............................ 0.35 μa
Grid No. 2 Current (DC) ...................... 0.5 μa
DC Voltage Gain² ............................... 125

CHARACTERISTICS

Grid No. 1 Current³ ............................. ±1.0 μa  Max.
Linearity⁴ ........................................ 10 Percent  Max.

NOTES:

1. Tube shielded from all light and external electrical influences.
2. The ratio ΔEb/ΔEc2 is calculated from the change in Grid No. 1 voltage required to give 2.0 volts increase in Eb.
3. Ef = .8 to 1.0 volts, Ebb = 45 volts, Eb = 12 volts, Ec1 Adj., Ec2 = 16.5 volts, Ib = .33μa, Rg1 = 10,000 megohms.
4. The departure of the Ec1 vs Eb curve from a straight line between the point Eb = 12 Volts, and Eb = 14 Volts, measured on the Eb axis and expressed as a percentage of 2 volts under Typical Operating Conditions.

SYLVANIA ELECTRIC PRODUCTS INC.

Electronic Components Group
ELECTRONIC TUBE DIVISION
EMPIREUM, PA.

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