



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 Amplifier ¹	
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)	0.33 μ a
Grid No. 2 Current (DC)	0.3 μ a
DC Voltage Gain ²	125

CHARACTERISTICS

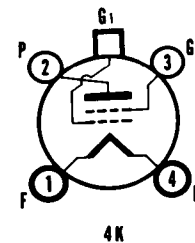
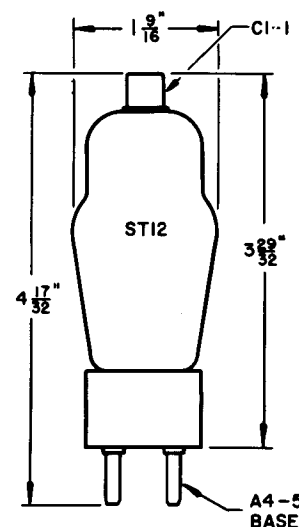
Grid No. 1 Current ³	$\pm 1.0 \mu$ a	Max.
Linearity ⁴	10 Percent	Max.

NOTES:

1. Tube shielded from all light and external electrical influences.
2. The ratio $\Delta E_b / \Delta E_{c2}$ is calculated from the change in Grid No. 1 voltage required to give 2.0 volts increase in E_b .
3. $E_f = .8$ to 1.0 volts, $E_{bb} = 45$ volts, $E_b = 12$ volts, E_{c1} Adj., $E_{c2} = 16.5$ volts, $I_b = .33 \mu$ a, $R_{g1} = 10,000$ megohms.
4. The departure of the E_{c1} vs E_b curve from a straight line between the point $E_b = 12$ Volts, and $E_b = 14$ Volts, measured on the E_b axis and expressed as a percentage of 2 volts under Typical Operating Conditions.

QUICK REFERENCE DATA

The Sylvania Type 1229 is a filamentary tetrode electrometer tube contained in a ST-12 envelope. The 1229 features exceptionally low grid current characteristics, electrostatic shielding and light shielding.



SYLVANIA ELECTRIC
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Electronic Components Group
ELECTRONIC TUBE DIVISION
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PAGE 1 OF 1

File Under

RECEIVING TUBES