



1401

ADVANCE DATA

MECHANICAL DATA

Bulb	T-3
Base	E8-10, Subminiature Button Flexible Leads
Outline	3-1
Basing	8DL
Cathode	Coated Unipotential
Mounting Position	Any

RATINGS (Absolute Values) ¹

Impact Acceleration ²	450 g	Max.
Vibrational Acceleration for Extended Periods ³	2.5 g	Max.
Bulb Temperature (At Hottest Point)	300° C	Max.

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage, $\pm 5\%$ ^{1, 5} (Absolute Values)	6.3 Volts	
Heater Current	150 Ma	
Heater-Cathode Voltage (Absolute Values)		
Heater Negative with Respect to Cathode	200 Volts	Max.
Heater Positive with Respect to Cathode	200 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES (Shielded) ⁴

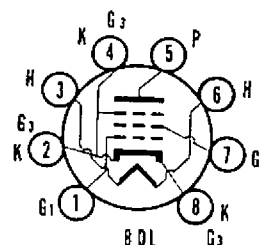
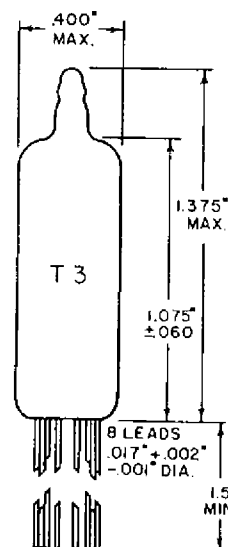
Grid No. 1 to Plate	.009 μf	Max.
Input: g1 to (h+k+g3+g2+E.S.)	3.6 μf	
Output: p to (h+k+g3+g2+E.S.)	3.8 μf	

RATINGS (Absolute Values) ¹

Plate Voltage, DC	165 Volts	Max.
Grid No. 2 Voltage, DC	155 Volts	Max.
Plate Dissipation	1.1 Watts	Max.
Grid No. 2 Dissipation	0.55 Watts	Max.
Cathode Current	16.5 Ma	Max.
Negative Grid No. 1 Voltage	55 Volts	Max.

QUICK REFERENCE DATA

The Sylvania Type 6049 is a subminiature semi-remote cutoff rf pentode capable of operation in the uhf region. This type is characterized by long life and stable performance and is suitable for service where severe conditions of mechanical shock, vibration and high temperature are encountered.



SYLVANIA ELECTRIC
PRODUCTS INC.
RADIO TUBE DIVISION

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CHARACTERISTICS

Plate Voltage	100 Volts
Grid No. 2 Voltage	100 Volts
Cathode Bias Resistor	150 Ohms
Plate Current	7.5 Ma
Grid No. 2 Current	2.5 Ma
Transconductance	3550 μ mhos
Plate Resistance (approx.)	0.4 Megohm
Grid No. 1 Voltage for $G_m = 25 \mu$ mhos	-25 Volts
Noise Output Voltage (Maximum) ⁶	100 Mv
Life Expectancy	
30° C Ambient Temperature	5000 Hours
250° C Ambient Temperature	1000 Hours

NOTES:

1. Limitations beyond which normal tube performance and tube life may be impaired.
2. Forces in any direction as applied by the Navy Type High Impact (Flyweight) Shock Machine for Electronic Devices, or equivalent.
3. Vibrational forces in any direction at 60 cycles per second for a period exceeding 100 hours.
4. With external shield of 0.405 inch diameter connected to cathode.
5. Tube life and reliability of performance are directly related to the degree of regulation of the heater voltage to its center-rated value of 6.3 volts.
6. Across plate resistor of 10,000 ohms with applied vibrational acceleration of 15 g at 40 cycles per second.