MECHANICAL DATA

Bulb	T-6½
Base	E9-1
Outline	6-3
Basing	9PU
Cathode	Coated Unipotential
Mounting Position	Any

HEATER CHARACTERISTICS AND RATINGS

Average Characteristics

Heater Operation	Series	Parallel	
Heater Voltage	6.3	6.3[1]	Volts
Heater Current	600[1]	600	Ma
Heater Warm-up Time[2]	11	-	Seconds

Ratings (Design Maximum Values)

	Min-Max	Min-Max	
Heater Voltage[3]	- -	5.7-6.9	Volts
Heater Current[3]	560-640	- -	Ma
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak		200	Volts Max.
Heater Positive with Respect to Cathode			
DC		100	Volts Max.
Total DC and Peak		200	Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	0.13 pf
Input: g1 to (h+k, g3, I.S.+g2)	16.0 pf
Output: p to (h+k, g3, I.S.+g2)	5.0 pf

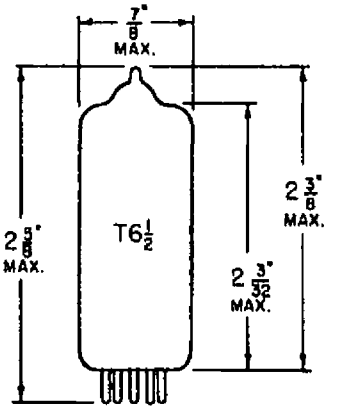
RATINGS (Design Maximum Values)

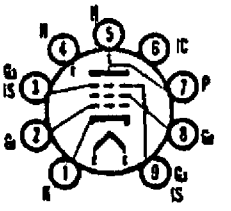
Plate Voltage	400	Volts Max.
Grid No. 2 Supply Voltage	330	Volts Max.
Grid No. 2 Voltage	See Rating Chart	
Positive Grid No. 1 Voltage	0	Volt Max.
Plate Dissipation	11.5	Watts Max.
Grid No. 2 Dissipation	1.0	Watt Max.
Grid No. 1 Circuit Resistance	0.25	Megohm Max.

Control grid to cathode spacing of this type is of such low order of magnitude as to preclude the use of voltage between these elements of more than 50 volts dc or peak ac in commercial tube checkers and shorts indicating devices, particularly where mechanical excitation of the tube is employed.

QUICK REFERENCE DATA

The Sylvania Type 6JW6 is a very high gm, strap frame grid, sharp cutoff pentode designed for video amplifier service. It has a gm of 36,000 and a plate dissipation of 11.5 watts. It is contained in a T-6½ bulb.





9PU

SYLVANIA ELECTRIC PRODUCTS INC.

Electronic Components Group
ELECTRONIC TUBE DIVISION
EMPORIUM, PA.

A Technical Publication

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CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250	Volts
Grid No. 2 Voltage	150	Volts
Grid No. 1 Voltage	0	Volt
Cathode Bias Resistor	56	Ohms
Plate Current	28	Ma
Grid No. 2 Current	6.5	Ma
Transconductance	36,000	umhos
Plate Resistance (Approx.)	50,000	Ohms
Ec1 for Ib = 100 ua (Approx.)	-5.7	Volts

INSTANTANEOUS PLATE KNEE CHARACTERISTICS[4]

Eb = 50 Volts, Ec2 = 125 Volts and Ec1 = 0 Volt
Ib = 70 Ma and Ic2 = 24 Ma

NOTES:

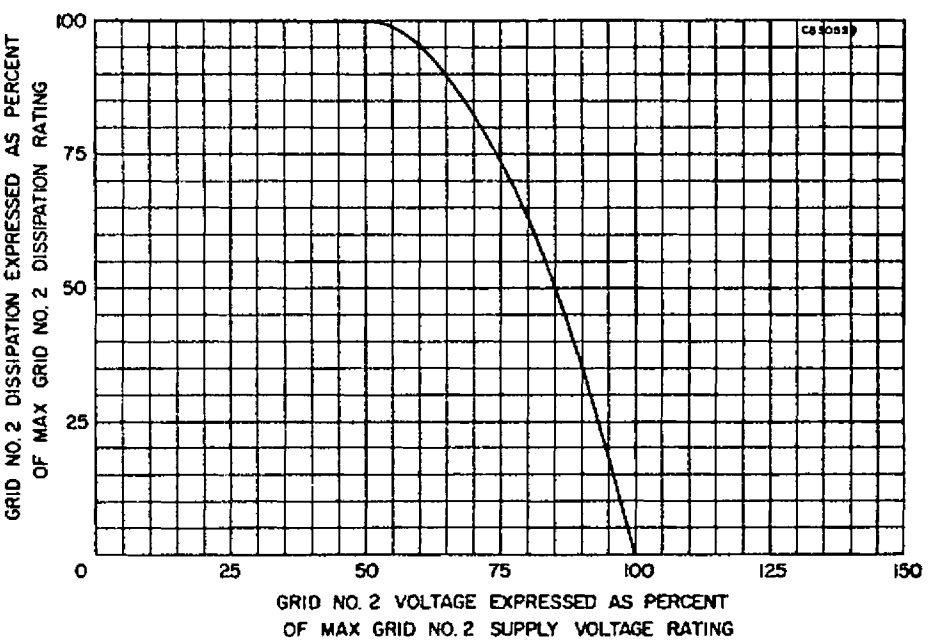
1. For series/parallel operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater current/voltage.

2. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.

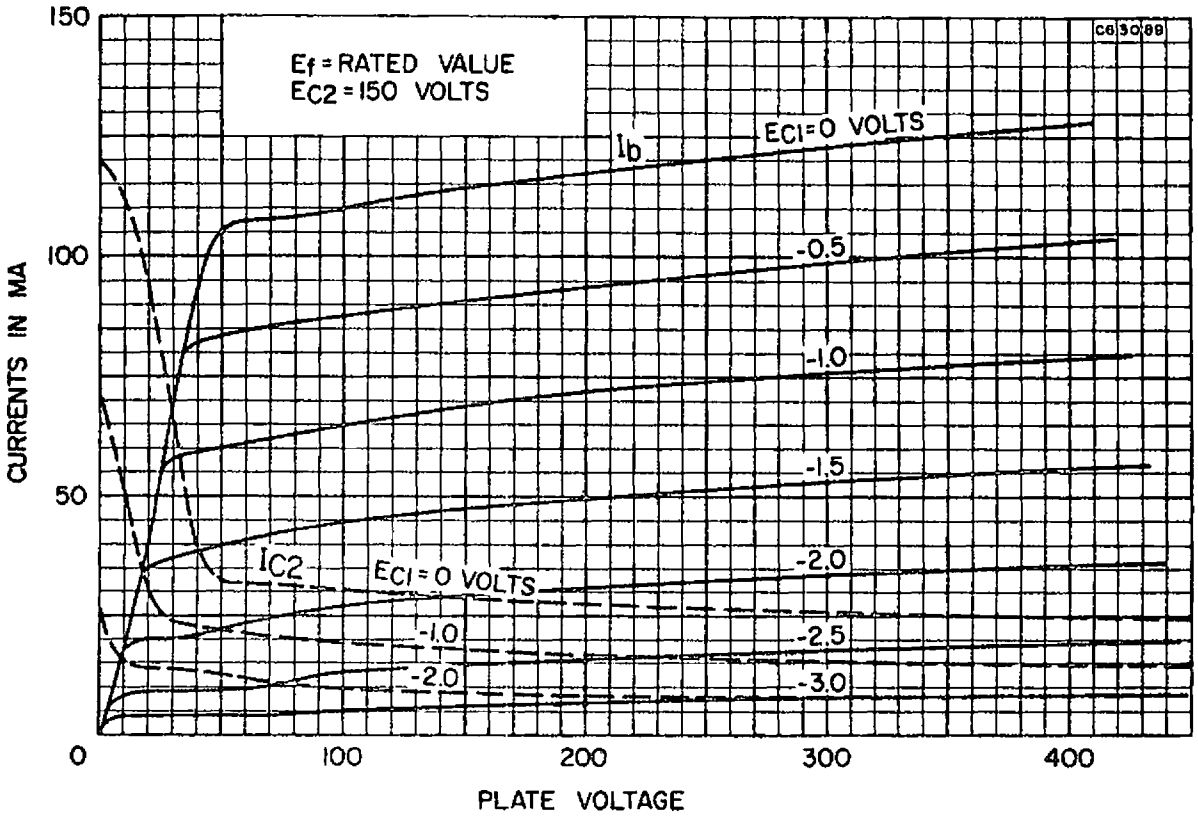
3. Heater voltage supply variations shall be restricted to maintain heater voltage/current within the specified values.

4. Applied for short interval (2 Sec. Max.) so as not to damage tube.

RATING CHART



AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS