



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

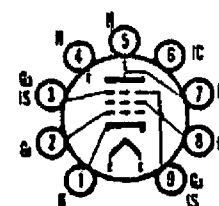
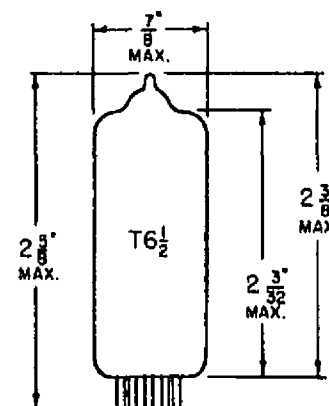
RATINGS (Design Maximum Values)

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
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Electronic Components Group
ELECTRONIC TUBE DIVISION
EMPORIUM, PA.

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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
E _{c1} for I _b = 100 ua (Approx.)	-5.7 Volts

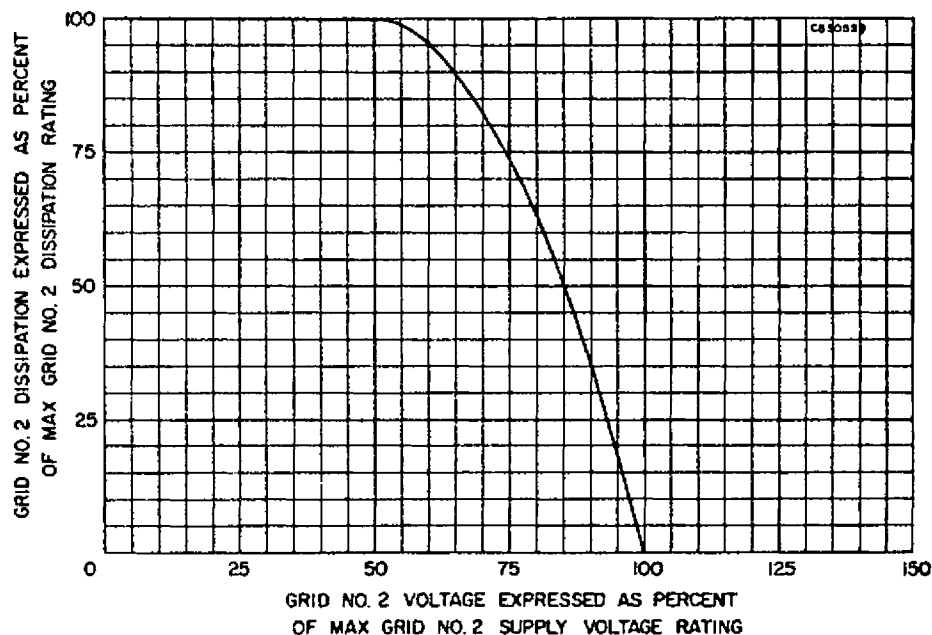
INSTANTANEOUS PLATE KNEE CHARACTERISTICS⁴

E_b = 50 Volts, E_{c2} = 125 Volts and E_{c1} = 0 Volt
 I_b = 70 Ma and I_{c2} = 24 Ma

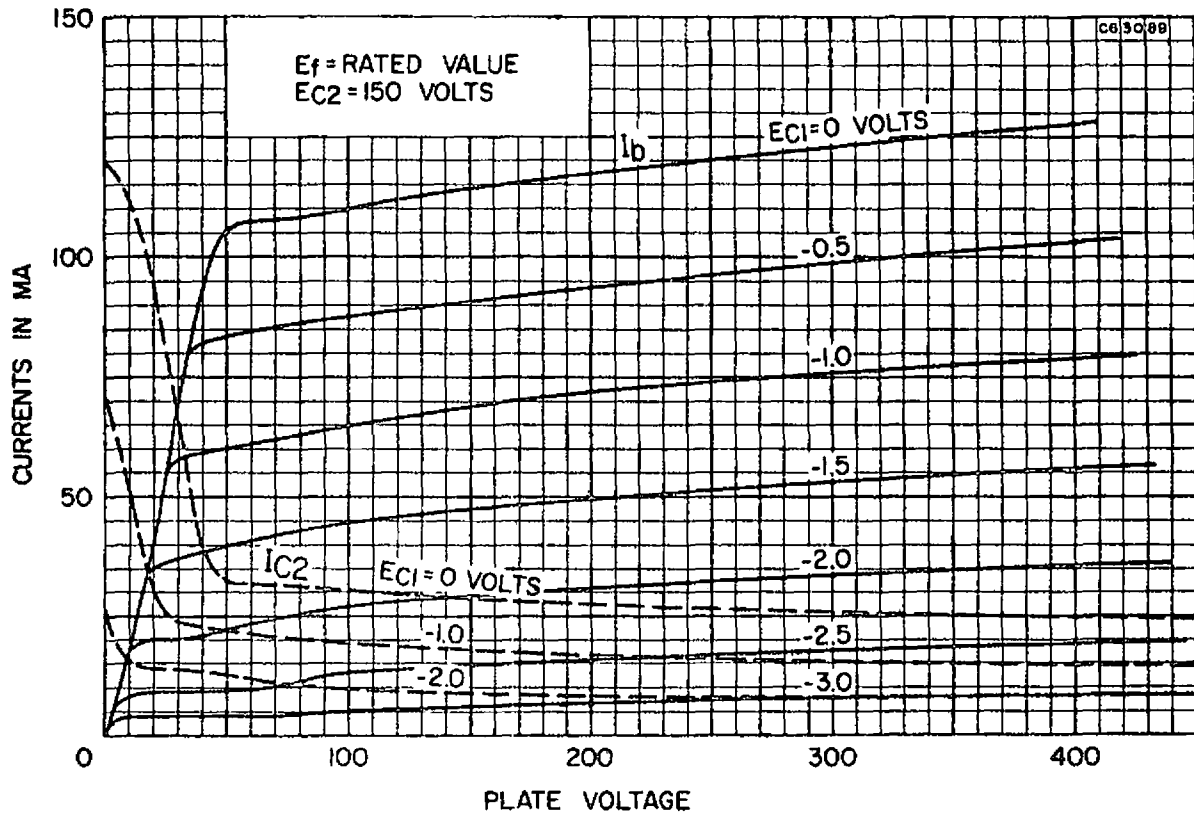
NOTES:

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

