



engineering data service

SYLVANIA
6BD6

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Basing	7BK
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	300 Ma
Heater-Cathode Voltage	90 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded ¹	Unshielded
Grid to Plate	0.005	0.004 μmf Max.
Input	4.3	4.3 μmf
Output	5.0	5.0 μmf

RATINGS (Design Center Values)

Plate Voltage	300 Volts	Max.
Screen Voltage	125 Volts	Max.
Plate Dissipation	4.0 Watts	Max.
Screen Dissipation	0.4 Watts	Max.
Cathode Current	14 Ma	Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier

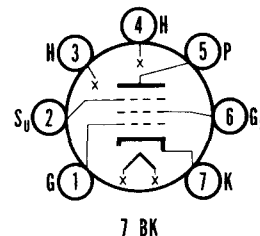
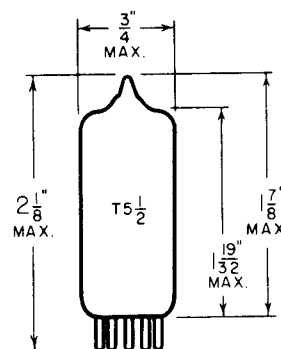
Plate Voltage	100	250 Volts
Suppressor Grid Voltage ²	0	0 Volts
Screen Grid Voltage	100	100 Volts
Control Grid Voltage	-1	-3 Volts
Plate Current	13	9 Ma
Screen Current	5	3.5 Ma
Plate Resistance	0.12	0.7 Megohm
Transconductance	2350	2000 μmhos
Control Grid Voltage for $g_m = 10 \mu\text{mhos}$	-35	-35 Volts

NOTES:

1. With external shield No. 316 connected to pin 7 (cathode).
2. Pin 2 connected to pin 7 at socket.

QUICK REFERENCE DATA

The Sylvania Type 6BD6 is a miniature remote cut-off pentode designed for service as a radio frequency or intermediate frequency amplifier. Electrically, the Type 6BD6 is similar to the Type 6SK7GT.



SYLVANIA ELECTRIC
PRODUCTS INC.

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