SYLVANIA

# engineering data service

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# 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 μμf Max. |
| Input | 4.3 | 4.3 μμf |
| Output | 5.0 | 5.0 μμf |

### 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 $A_1$ Amplifier**

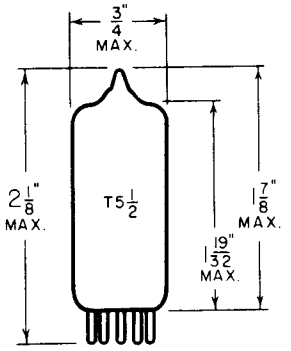
| | | |
|---|---|---|
| Plate Voltage | 100 | 250 Volts |
| Supressor Grid Voltage[2] | 0 | 0 Volts |
| Screen Grid Voltage | 100 | 100 Volts |
| Control Grid Voltage | -1 | -3 Volts |
| Plate Current | 13 | 9 Ma |
| Screen Current | 5 | 3.5 Ma |
| Plate Resistance | 0.12 | 0.7 Megohm |
| Transconductance | 2350 | 2000 μmhos |
| Control Grid Voltage for gm = 10 μmhos | -35 | -35 Volts |

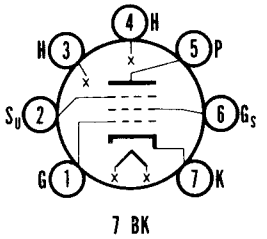
### NOTES:

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.




7 BK

SYLVANIA ELECTRIC PRODUCTS INC.

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