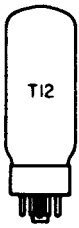
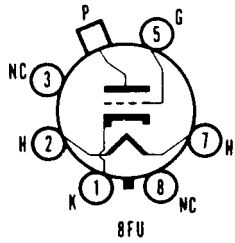


SYLVANIA TYPE 6BD4
6BD4A

HIGH VOLTAGE REGULATOR



MECHANICAL DATA

Bulb	T-12
Base	Short Jumbo Shell Octal
Basing	8FU
Maximum Overall Length	5⅛"
Maximum Seated Height	4⅝"

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage (A C or D C)	6.3 Volts
Heater Current	600 Ma
Maximum Peak Heater-Cathode Voltage	180 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	1.0 μμf
Input	3.8 μμf
Output	0.04 μμf Max

MAXIMUM RATINGS (Design Center Values)

	6BD4	6BD4A	
D C Plate Voltage	20000	27000	Volts
Unregulated D C Supply Voltage	40000	55000	Volts
Grid Voltage			
D C Value	−125	−125	Volts
Peak Value	−550	−550	Volts
D C Plate Current	1.5	1.5	Ma
Plate Dissipation	20	25	Watts
Grid Circuit Resistance			
With Unregulated Supply with Equivalent Resistance of More Than 8 Megohms	3.0	4.0	Megohms
With Unregulated Supply with Equivalent Resistance of Less Than 8 Megohms	See Curve A	See Curve B	

CHARACTERISTIC

Amplification Factor	1650

WARNING

The high voltage at which the 6BD4 is operated may be extremely dangerous to the user. Great care should be taken during the adjustment of circuits.

Operation of the 6BD4 at plate voltages above 16,000 volts (absolute value) results in the production of X-rays which can constitute a health hazard unless adequately shielded.

APPLICATION

The Types 6BD4 and 6BD4A are beam triode, high-voltage, low current regulators, which may be used to supply regulated voltages for color television picture tubes. The principal difference between Types 6BD4 and 6DB4A is the maximum value of regulated voltage that may be obtained.

6BD4, 6BD4A (Cont'd)

GRID CIRCUIT RESISTANCE