

N.V. PHILIPS ' GLOEILAMPENFABRIEKEN EINDHOVEN HOLLAND

TUBE TYPE 6BT4

The 6BT4 is an indirectly heated full wave rectifier.

PHYSICAL SPECIFICATIONS

Cathode	Coated unipotential
Base	E8-30
Bulb	Glass
Maximum overall length	3-3/16" (81mm)
Maximum seated height	2-29/32" (74mm)
Maximum diameter	7/8" (22mm)
Mounting position	Any.

BASING CONNECTIONS 8HA

Pin 1	Heater	Pin 5	No connection
Pin 2	Plate No. 1	Pin 6	Plate No. 2
Pin 3	No connection	Pin 7	Cathode
Pin 4	Internal connection	Pin 8	Heater

GENERAL ELECTRICAL DATA

Heater voltage	6.3	volts
Heater current	0.6	amps

MAXIMUM RATINGS (Design centre values)

A.C. Plate Supply Voltage (RMS) per plate	350	volts
D.C. Output current	90	ma
Filter input capacitor	50	µF
Effective Plate Supply Impedance per plate	300	ohms
Peak Voltage between heater and cathode	500	volts

6BT4

Output dc voltage (volts)

700

600

500

400

300

200

100

0

1. Transformer voltage = 2 x 250 volts, rms
 2. " " " = 2 x 275 volts, rms
 3. " " " = 2 x 300 volts, rms
 4. " " " = 2 x 350 volts, rms
- Filter input capacitor = 50 μ F
 R = total effective plate supply resistance, per plate

R = 300 ohms

R = 350 ohms

R = 400 ohms

R = 215 ohms

R = 250 ohms

R = 300 ohms

R = 175 ohms

R = 200 ohms

R = 250 ohms

R = 125 ohms

R = 150 ohms

R = 200 ohms

20

40

60

80

100

Output dc current (milliamps)