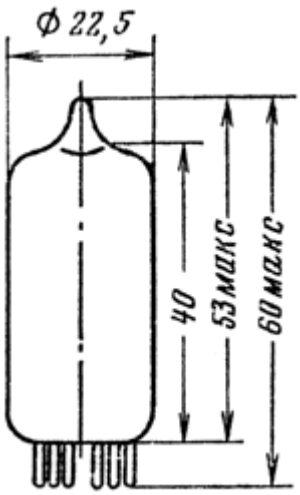
6N23P

(dual triode)



Main dimensions of the 6N23P lamp.

General information

It is used for broadband amplification of high-frequency voltage, low-power amplification and pulse generation.
Design - in a glass shell, miniature. Weight 16 g.
Foreign analogue - ECC88.

Interelectrode capacitances, pF

Input 3.6 + 0.9 - 0.85. Output of the 1st triode 2.1 + 0.35 - 0.3. Output of the 2nd triode 1.95 +- 0.3. Pass-through 1.55 +- 0.3. Between the anode and cathode of each triode no more than 0.24. Between the anodes of the triodes no more than 0.09. Between the grids of the triodes no more than 0.005.

Nominal electrical data

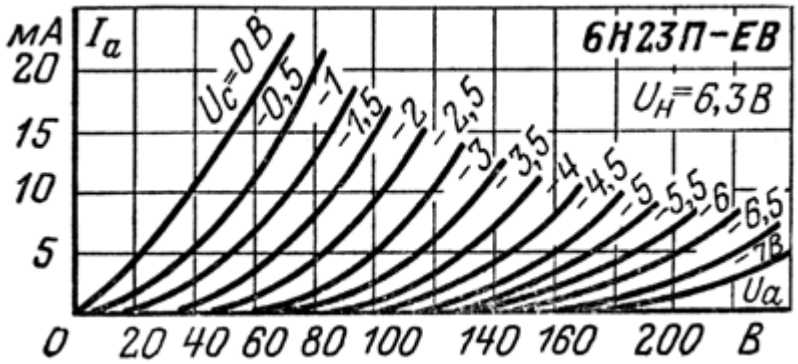
with U_n = 6.3 V, U_a = 100 V, U_c = 9 V

Heating current, mA	310+-25
Anode current, mA	15+-5
Anode current at the beginning of the characteristic (at U_c = - 8 V), mA	no more than 0.1
Reverse grid current, μA	no more than 0.2
Leakage current between cathode and heater, μA	no more than 15
Slope of characteristic, mA/V	10 - 12.7
Steepness of the characteristic at U_n = 5.7 V	not less than 8.5
Gain factor	34+-9

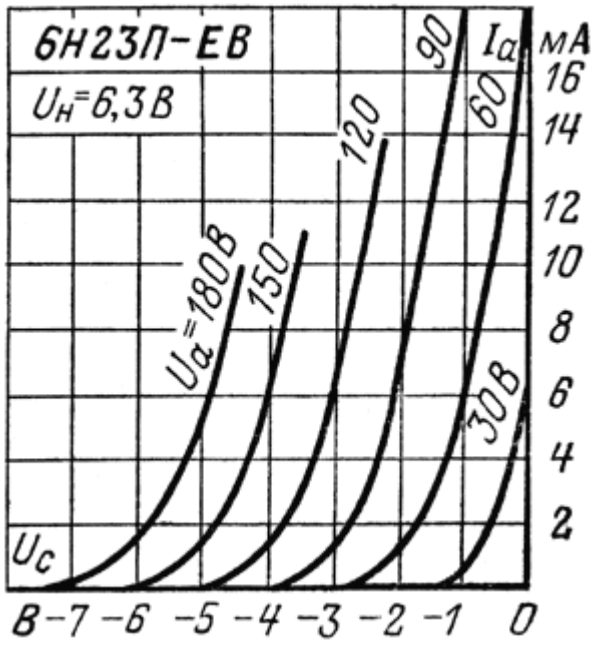
Input impedance (at f = 200 MHz), Ohm	500
Equivalent noise resistance, Ohm	300
Vibration noise voltage (at Ra = 2 kOhm), mV	no more than 150
Operating time, h	not less than 5000
Evaluation criteria:	
Reverse grid current, μA	no more than 1
slope of characteristic, mA/V	not less than 7.5

Maximum permissible electrical values

Filament voltage, V	5.7 - 7
Anode voltage, V	300
Anode voltage with the lamp closed, V	470
Anode voltage with the lamp locked in a pulse, V	1000
The grid voltage in the pulse is negative, V	200
Voltage between cathode and heater, V:	
at positive heater potential	200
at negative heater potential	200
Cathode current, mA:	
average value	20
in impulse	200
Power dissipated by the anode of each triode, W	1.8
Power dissipated by the grid of each triode, W	0.03
Resistance in the grid circuit, MOhm	1
Temperature of the lamp bulb, deg. C	120
Resistance to external influences:	
acceleration during vibration at a frequency of 50 Hz, g	2.5
acceleration during multiple impacts, g	35
range of operating ambient temperatures, deg. C	From -60 to +70



Characteristics of the dependence of the anode current on the anode voltage



Characteristics of the dependence of the anode current on the grid voltage

The material was prepared based on data from [5, pp. 164-165].

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