6Ж38П-ЕВ

Miniature pentode with short characteristics having heated cathode in glass envelope (according to specs 3 300 053 TY)

	Values			
Electrical data	Operating Conditions 1			Operating Conditions II
	min	nom	max	nom
Heater voltage, V Plate voltage, V	6	6.3 150 100	6.6	6.3 120 120
The second grid voltage, V Transconductance, mA V The first grid reverse	7.6	10.6	IN METERS OF	9
The second grid current, mA Heater current, mA Plate current, mA	170 8.5	1.8 190 12	0.3 3.5 210 15.5	1.3 190 8.5
Plate current, mA Plate current at transcon- ductance origin, µA Cathode-heater insulation	0.0		30	
Transconductance at low nominal voltage, mA V Input capacitance, pF Output capacitance, pF Transfer capacitance, pF	6.5 4.1 2.4	5.2 3.3 0.015	6.3 4.2 0.02	5.2 3.3 0.02
Resistance in cathode circuit, Ω Internal resistance, $k\Omega$		82 280		(max value) 200 320
Noise equivalent resistance, Ω Readiness time, s Minimum non-failure operation time, h 95 per cent resource, h Shelf life, y	5000 10000 15	500	20	500
Absolute Maximum Ratings		up 150	to 0 h	up to 5000 h
Heater voltage, min, V Heater voltage, max, V Plate voltage, max, V		5. 300	7	6 6.6 165
Plate voltage, max, V Plate voltage in the cutoff max, V	tube,	300		300

The second grid voltage, max, V	160	135
The second grid voltage in the cutoff tube, max, V	300 ±120	300 ± 120
Cathode-heater voltage, max, V Cathode current (mean value) max, mA	25	20
Resistance in the first grid	1	23
Plate dissipated power, max, W The second grid dissipated	0.65	0.35
power, max, W Envelope temperature in the most heated area opposite the plate, °C	150	150

Notes:

1. When operating the tube it is recommended to keep within the values specified by the absolute maximum ratings. Otherwise the tube will become inoperative.

2. The maximum permissible short-time bending force on the tube pin directed to the axis perpendicularly must

not exceed 0.5 kgf and when prolonged—0.2 kgf.

3. It is not advisable to use the tube in heater voltage

series connection in order to secure tube reliability.

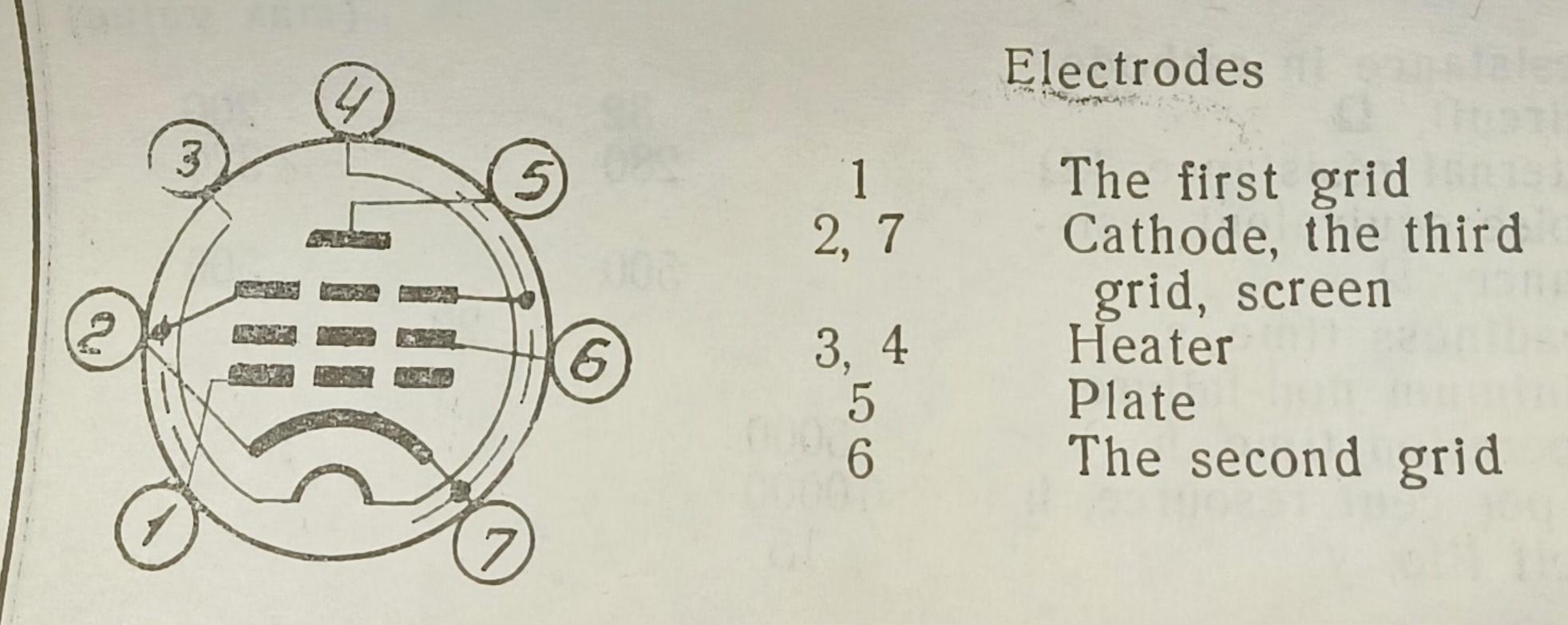
4. When using the tube having a grid with fixed bias one should take care to sustain plate dissipated power within the operate limits.

5. It is not allowed to operate the tube at two or more

rated values determining operate conditions.

6. Envelope temperature when operating the tube during 500 h must not exceed +200°C.

Terminal Connections



Bottom view

Construction Features

Height, max—57 mm Diameter, max—19 mm Mass, max—15 g