



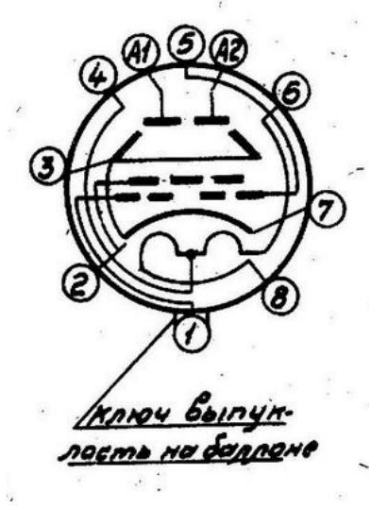
Generator dual output beam tetrode with common cathode GU-19-1 is intended for use in modulator circuits, frequency multipliers, power amplifiers and generators at frequencies up to 500 MHz.

Purpose of the conclusions of the lamp GU-19-1:

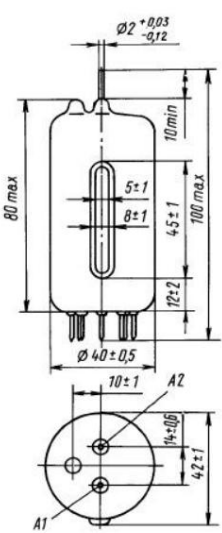
1	first grid of the first tetrode
2	the second grid is common
3,7	common cathode and beam plates
4,6,8	glow (heater)
5	first grid of the second tetrode
A', A''	anodes are brought to the upper terminals

The GU-19-1 lamp is made in a glass baseless case with 8- with lower terminals and 2 upper anode terminals. cathode two tetrodes lamps common oxide indirect glow. The filament has tap from the middle, which allows you to connect its halves in series or in parallel. The key is the bulge on the balloon.

Connecting the electrodes to the terminals of the GU-19-1 lamp:



Drawing lamp GU-19-1:



Lamp parameters GU-19-1:
(nominal duty) Filament voltage

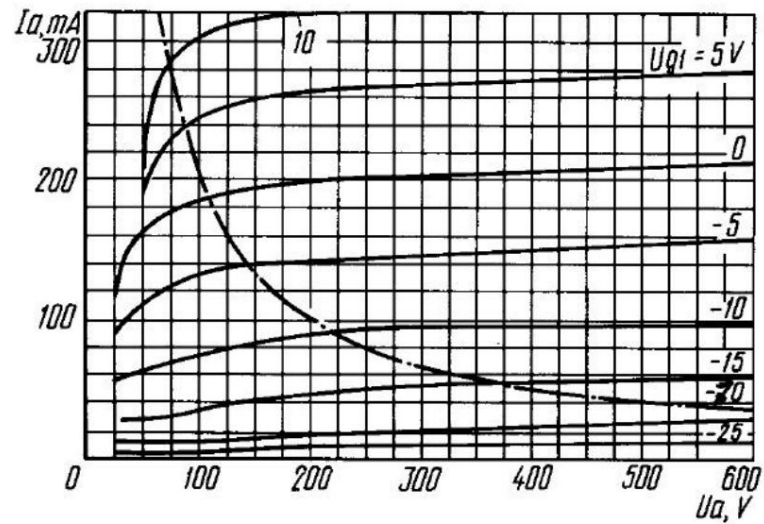
at parallel inclusion of threads	6.3V
Heating voltage at filaments connected in series	12.6V
Anode voltage Voltage of the second grid	350V
Filament current in parallel connection	250V
threads	1.7±0.2A
Filament current in series turning on the filaments	
Operating anode current	18..75 mA
Current of the second grid	<8mA
Slope of characteristic (Ua=350V, Uc2=250V, Uc1=-1000V, Ia=40mA)	>4mA/V
First grid leakage current Oscillatory	<10µA
power (f=500MHz), at least	40W
Inlet capacitance Outlet	10±2.5pF
capacitance Through	3.5±0.7pF
capacitance Service life	mA. <0.08pF
	1000 hrs

Limit parameters of the GU-19-1 lamp:

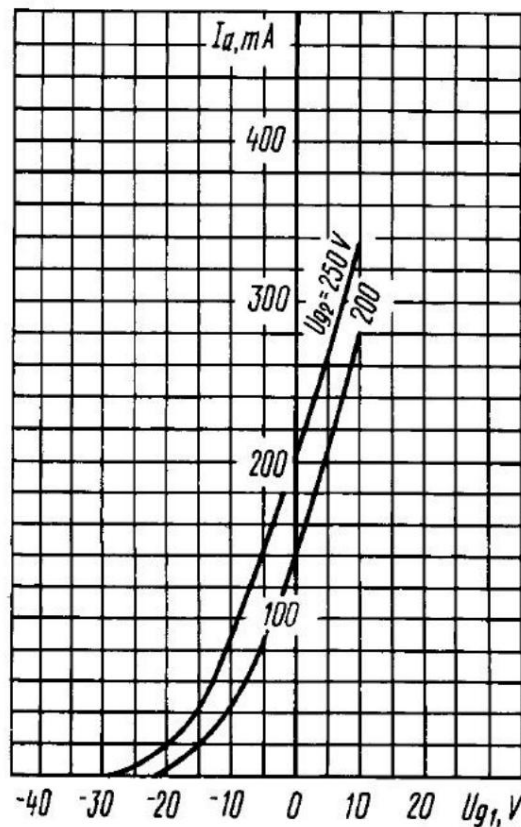
Filament voltage when the threads are connected in parallel	Filament voltage	5.7..6.9V
when the threads are connected in series	11.4..13.8V	
Anode voltage Second		750V
grid voltage First grid voltage negative		250V
Maximum power on each anode	Maximum power on the	175B
second grid	Power on the first grid of each tetrode	0.85±0.1A
		40W
		6W
		2W
Maximum cathode current	Maximum	280mA
voltage between cathode and heater	Maximum operating frequency	Cylinder ±150ÿ
temperature maximum	Ambient temperature	Notes: 500 MHz
		+250°C
		-60..+70°C

1. The output power is measured at an anode voltage of 350 V, the second grid 250 V, on the first grids minus 55 V; at anode currents of 240 mA, the second grid is not more than 26 mA, first grids no more than 20 mA
2. The steepness of the characteristics is measured at an anode voltage of 350 V, on the second grid 250 V and anode current 40

Averaged anode characteristics of the GU-19-1 lamp
(each tetrode at $U_a=250V$):



Averaged anode-grid characteristics of the GU-19-1 lamp (each tetrode at $U_a=550V$):



Permissible external influences:

- Vibration in the frequency range 1-200Hz with acceleration..... $49m/s^2$ •
- Multiple shock loads with acceleration..... $392m/s^2$ • Relative air humidity (at $\dot{y}=+35^\circ\dot{y}$).....up to 98%

Material prepared:

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