



ELECTRONIC TUBE REFERENCE

GI13BM

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian metal-ceramic decimetric-wave triode for self-excited oscillator circuits in continuous-wave or pulsed operation with anode modulation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode

No fixed ratings recorded.

Promoted-field completeness audit performed from English ratings/characteristics.

The GI-13BM triode is used in self-excited oscillator circuits in continuous-wave or pulsed operation with anode modulation in the decimetric wavelength range; it is metal-ceramic and forced-air cooled.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Electronintorg

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 ELECTRONINTORG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	130	130M) npegHasHa4yeH ANsl TeHEPUPOBaHWUSI BbICOKO- excited oscillator circuits with no external feedback,
temperature, °C [1]	735 C	MG 735 Ambient temperature, °C —60to +100
temperature, °C [2]	-60 C	MG 735 Ambient temperature, °C —60to +100
temperature, °C [3]	100 C	MG 735 Ambient temperature, °C —60to +100
voltage	400 uS	KpyTu3Ha xapak TepucTuku (Npyu HanpspkeHun Mutual conductance (at anode voltage 400 V,
current [1]	400 A	aroga 400 B, naMeHeHVn Hanps>XKeHUs CETKM grid voltage change 0.5 V, anode current
current [2]	500 mA	aroga 400 B, naMeHeHVn Hanps>XKeHUs CETKM grid voltage change 0.5 V, anode current
voltage change from [1]	8 V	MAB L 8-12 Penetration factor (at anode voltage change from
voltage change from [2]	-12 V	MAB L 8-12 Penetration factor (at anode voltage change from
current [1]	3 uA	MpoHUUAEMOCTb (MPY 3MEHEHUW HANPAXKEHURA 400-800 V, anode current 15mA), % 0.7-1.5
current [2]	400 uA	MpoHUUAEMOCTb (MPY 3MEHEHUW HANPAXKEHURA 400-800 V, anode current 15mA), % 0.7-1.5

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [3]	-800 uA	MpoHUUAEMOCTb (MPY 3MEHEHUW HANPAXKEHURA 400-800 V, anode current 15mA), % 0.7-1.5
current [4]	15 uA	MpoHUUAEMOCTb (MPY 3MEHEHUW HANPAXKEHURA 400-800 V, anode current 15mA), % 0.7-1.5
current [5]	0.7 uA	MpoHUUAEMOCTb (MPY 3MEHEHUW HANPAXKEHURA 400-800 V, anode current 15mA), % 0.7-1.5
current [6]	-1.5 uA	MpoHUUAEMOCTb (MPY 3MEHEHUW HANPAXKEHURA 400-800 V, anode current 15mA), % 0.7-1.5
voltage [1]	400 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
voltage [2]	-800 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
voltage [3]	15 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
voltage [4]	7 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
voltage [5]	-15 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
voltage [6]	400 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
voltage [7]	35 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
voltage [8]	-65 mA	aropaa ot 400-800 B, Toke aHoga 15MA), % 0,7-1,5 Anode current (at anode voltage 400 V), mA 35-65
Interelectrode capacitance, pF [1]	400 pF	Tok aHoga (npu HanpsbkeHuu aHoaa 400 B), MA 35-65 Interelectrode capacitance, pF:
Interelectrode capacitance, pF [2]	35 pF	Tok aHoga (npu HanpsbkeHuu aHoaa 400 B), MA 35-65 Interelectrode capacitance, pF:
Interelectrode capacitance, pF [3]	-65 pF	Tok aHoga (npu HanpsbkeHuu aHoaa 400 B), MA 35-65 Interelectrode capacitance, pF:
output [1]	95	BXOOHAN . ..ottt 9,5-12 output 0.16-0.25

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
output [2]	-12	BXOOHAN . ..ottt 9,5-12 output 0.16-0.25
output [3]	0.16	BXOOHAN . ..ottt 9,5-12 output 0.16-0.25
output [4]	-0.25	BXOOHAN . ..ottt 9,5-12 output 0.16-0.25
anode [1]	6 W	BpemsirotoBHOCTH, C,HE 6onee 60 QOutput power in pulsed operation (at peak anode
anode [2]	60 W	BpemsirotoBHOCTH, C,HE 6onee 60 QOutput power in pulsed operation (at peak anode
wavelength [1]	1.5 cm	MOLYHOCTb BbIXOAHASA B UMMYIBCHOM pexxkume {(npu voltage 1.5 kV, wavelength 12.4 cm, puise duration
wavelength [2]	12.4 cm	MOLYHOCTb BbIXOAHASA B UMMYIBCHOM pexxkume {(npu voltage 1.5 kV, wavelength 12.4 cm, puise duration
HanpshkeHu aHoaa [1]	8	HanpshkeHu aHoaa 8 umnynece 1,5 kB, gnvHe 3-7 us, 1/duty factor 150-200), W, at
HanpshkeHu aHoaa [2]	15	HanpshkeHu aHoaa 8 umnynece 1,5 kB, gnvHe 3-7 us, 1/duty factor 150-200), W, at
HanpshkeHu aHoaa [3]	3	HanpshkeHu aHoaa 8 umnynece 1,5 kB, gnvHe 3-7 us, 1/duty factor 150-200), W, at
HanpshkeHu aHoaa [4]	-7	HanpshkeHu aHoaa 8 umnynece 1,5 kB, gnvHe 3-7 us, 1/duty factor 150-200), W, at
HanpshkeHu aHoaa [5]	1	HanpshkeHu aHoaa 8 umnynece 1,5 kB, gnvHe 3-7 us, 1/duty factor 150-200), W, at
HanpshkeHu aHoaa [6]	150	HanpshkeHu aHoaa 8 umnynece 1,5 kB, gnvHe 3-7 us, 1/duty factor 150-200), W, at
HanpshkeHu aHoaa [7]	-200	HanpshkeHu aHoaa 8 umnynece 1,5 kB, gnvHe 3-7 us, 1/duty factor 150-200), W, at
cathode, kV [1]	1	NOCTOSHHE Npu XONOAHOm KaToae, KB 1 DC with cold cathode, kV 1
cathode, kV [2]	1	NOCTOSHHE Npu XONOAHOm KaToae, KB 1 DC with cold cathode, kV 1
pulse	3 V	Hanpsikenue ceTku, MrHOBEHHE 3Ha4eHune (npv Grid voltage, instantaneous value (with pulse
grid [1]	2	PaccemBaemast MOWHOCTb CeTkOR, BT 2 grid ... 2
grid [2]	2	PaccemBaemast MOWHOCTb CeTkOR, BT 2 grid ... 2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
heating time, s, atleast [1]	45 s	Bpems paszorpesa katoga, C, HE MEHee 45 Cathode heating time, s, atleast 45
heating time, s, atleast [2]	45 s	Bpems paszorpesa katoga, C, HE MEHee 45 Cathode heating time, s, atleast 45
Wavelength,cm, atleast [1]	9 cm	OnvHa BOMHbI, CM, HEMEHEee 9 Wavelength,cm, atleast 9
Wavelength,cm, atleast [2]	9 cm	OnvHa BOMHbI, CM, HEMEHEee 9 Wavelength,cm, atleast 9
Anode Characteristic Curves :] [1]	0	Anode Characteristic Curves :]0 4 PA - % P = 4 :g
Anode Characteristic Curves :] [2]	4	Anode Characteristic Curves :]0 4 PA - % P = 4 :g
Anode Characteristic Curves :] [3]	4	Anode Characteristic Curves :]0 4 PA - % P = 4 :g

TUBE TINKER

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