

ELECTRONIC TUBE REFERENCE

GI19B

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Russian triode for grounded-grid self-excited oscillator circuits with pulsed anode operation.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode
No fixed ratings recorded.
Promoted-field completeness audit performed from English ratings/characteristics.

The GI-19B triode is used in grounded-grid self-excited oscillator circuits with pulsed anode operation and forced-air cooling.

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
grid A\ S	-196	The N'-196 triode is used in grounded-grid A\ S
grid	220	Height: at most 220 mm. f1- heater; C — grid;
voltage	1 uS	KpyTnsHa xapakTepucTuky (MPpyU HanpspkKeHum Mutual conductance (at anode voltage 1 kV,
current0 [1]	1 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
current0 [2]	11 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
current0 [3]	5 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
current0 [4]	21 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
current0 [5]	-33 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
current0 [6]	5 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
current0 [7]	21 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
current0 [8]	-33 mA	anoga 1 kB, Toke aHoaa 11 0,5 A), MA/B 21-33 anode current0.5A), mA/NV 21-33
output [1]	9	BbIXOAHAsA 9-12 output 9-12
output [2]	-12	BbIXOAHAsA 9-12 output 9-12
output [3]	9	BbIXOAHAsA 9-12 output 9-12
output [4]	-12	BbIXOAHAsA 9-12 output 9-12
heating time, s,atmost [1]	120 s	Bpems pasorpeBa katoaa, c, He bonee 120 Cathode heating time, s,atmost 120

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
heating time, s,atmost [2]	120 s	Bpems pasorpeBa katoaa, c, He bonee 120 Cathode heating time, s,atmost 120
voltage [1]	135 kV	npu HanpskeHun aHoga 13,5 kB 230 at anode voltage 13.5kV, atleast 230
voltage [2]	230 kV	npu HanpskeHun aHoga 13,5 kB 230 at anode voltage 13.5kV, atleast 230
voltage [3]	13.5 kV	npu HanpskeHun aHoga 13,5 kB 230 at anode voltage 13.5kV, atleast 230
voltage [4]	230 kV	npu HanpskeHun aHoga 13,5 kB 230 at anode voltage 13.5kV, atleast 230
Heater voltgge, Vi [1]	345	TycKOBOW TOK Hakana, A 34,5 Heater voltgge, Vi 7.1-7.5
Heater voltgge, Vi [2]	7.1	TycKOBOW TOK Hakana, A 34,5 Heater voltgge, Vi 7.1-7.5
Heater voltgge, Vi [3]	-7.5	TycKOBOW TOK Hakana, A 34,5 Heater voltgge, Vi 7.1-7.5
current, A	500 A	CKBAKHOCTh, HE MEHEE . . + v v oo 500 Heater startingcurrent, A
HarpsokeHue aHoaa B UMnynsce, KB [1]	14	HarpsokeHue aHoaa B UMnynsce, KB 14 1/duty factor, atleast
HarpsokeHue aHoaa B UMnynsce, KB [2]	1	HarpsokeHue aHoaa B UMnynsce, KB 14 1/duty factor, atleast
voltage, kV	14 kV	PacceMBaeMas MOUHOCTb, BT Pealf anpde voltage, kV 14
Dissipation, W [1]	1 W	BHOZOM vttt 1-10° Dissipation, W-
Dissipation, W [2]	-10 W	BHOZOM vttt 1-10° Dissipation, W-
anode [1]	30	COTKOM o o oo 30 anode 1.10°
anode [2]	1.1	COTKOM o o oo 30 anode 1.10°
grid .. DU [1]	10	AnUTensHOCTE UMNYABCA, MKC . . .o oo avae 10 grid .. DU 30
grid .. DU [2]	30	AnUTensHOCTE UMNYABCA, MKC . . .o oo avae 10 grid .. DU 30
Pulse duration, us [1]	60 us	TemnepaTypa aHoaa, 060f104KM ¥ cnaes, °C 150 Pulse duration, us 10
Pulse duration, us [2]	4 us	TemnepaTypa aHoaa, 060f104KM ¥ cnaes, °C 150 Pulse duration, us 10
Pulse duration, us [3]	150 us	TemnepaTypa aHoaa, 060f104KM ¥ cnaes, °C 150 Pulse duration, us 10

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse duration, us [4]	10 us	TemnepaTypa aHoaa, 060f104KM ¥ cnaes, °C 150 Pulse duration, us 10
anode, envelope and seals, °C	150 C	Temperature at anode, envelope and seals, °C 150