

ELECTRONIC TUBE REFERENCE

GM100B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power RF triode for oscillator, amplifier, or transmitting service.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode
No fixed ratings recorded. Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.

["eHepaTopHbi Tpuog 'Y-100b npegHasHayeH gns The 'Y-1006b triode is used as an oscillator in statio- Cathode: directly heated. Envelope: metal-ceramic. Cooling: forced air.

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
["eHepaTopHbi Tpuog 'Y [1]	100	["eHepaTopHbi Tpuog 'Y-100b npegHasHayeH gns The 'Y-1006b triode is used as an oscillator in statio-
["eHepaTopHbi Tpuog 'Y [2]	1006	["eHepaTopHbi Tpuog 'Y-100b npegHasHayeH gns The 'Y-1006b triode is used as an oscillator in statio-
temperature, °C	150 C	YAAPHBIM yCKOpeHnem, M/ic? 150 Ambient temperature, °C
anode [1]	5 A	Tok aHoga B MmNy bCce (Npu HanpsXXeHusax Hakana 5 B, Peak anode current (at filament voltage 5 V, anode
anode [2]	5 A	Tok aHoga B MmNy bCce (Npu HanpsXXeHusax Hakana 5 B, Peak anode current (at filament voltage 5 V, anode
voltage [1]	5 kV	anoga 0,5 kB, cetkun 500 B, Hanps>xeHun cMeLeHns voltage 0.5 kV, grid voltage 500 V, bias voltage
voltage [2]	500 kV	anoga 0,5 kB, cetkun 500 B, Hanps>xeHun cMeLeHns voltage 0.5 kV, grid voltage 500 V, bias voltage
voltage [3]	0.5 kV	anoga 0,5 kB, cetkun 500 B, Hanps>xeHun cMeLeHns voltage 0.5 kV, grid voltage 500 V, bias voltage
voltage [4]	500 kV	anoga 0,5 kB, cetkun 500 B, Hanps>xeHun cMeLeHns voltage 0.5 kV, grid voltage 500 V, bias voltage
voltage [1]	3 kV	3HauyeHure (NMpu HanpsbkeHWax Hakana 5 B, aHoga 6 kB, voltage 5V, anode voltage 6 kV,
voltage [2]	5 kV	3HauyeHure (NMpu HanpsbkeHWax Hakana 5 B, aHoga 6 kB, voltage 5V, anode voltage 6 kV,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [3]	6 kV	3HauyeHure (NMpu HanpsbkeHWax Hakana 5 B, aHoga 6 kB, voltage 5V, anode voltage 6 kV,
voltage [4]	5 kV	3HauyeHure (NMpu HanpsbkeHWax Hakana 5 B, aHoga 6 kB, voltage 5V, anode voltage 6 kV,
voltage [5]	6 kV	3HauyeHure (NMpu HanpsbkeHWax Hakana 5 B, aHoga 6 kB, voltage 5V, anode voltage 6 kV,
current [1]	1 A	Toke aHopa 0,1 A), B,Hebonee 350 anode current 0.1 A), V,atmost 350
current [2]	350 A	Toke aHopa 0,1 A), B,Hebonee 350 anode current 0.1 A), V,atmost 350
current [3]	100 mA	Toke aHopa 0,1 A), B,Hebonee 350 anode current 0.1 A), V,atmost 350
current [4]	350 A	Toke aHopa 0,1 A), B,Hebonee 350 anode current 0.1 A), V,atmost 350
anode	5 V	KoabcbuumeHT yeunenus (Mpu HANPsHKeHUsx Hakana Gain coefficient (at filament voltage 5 V., anode
current [1]	5 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [2]	5 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [3]	2 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [4]	3 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [5]	15 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [6]	-28 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [7]	500 mA	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [8]	2 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [9]	3 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [10]	15 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
current [11]	-28 A	5B, aHoga 0,5 kB un 2 kB, Toke aHoga 3 A) 15-28 voltages 0.5 kV and 2 kV, anode current 3A) 15-28
anode [1]	0 V	caMoB0o30yxaeHus, KBT: at up to 10 MHz (at filament voltage 5 V, anode
anode [2]	10 V	caMoB0o30yxaeHus, KBT: at up to 10 MHz (at filament voltage 5 V, anode
anode [3]	5 V	caMoB0o30yxaeHus, KBT: at up to 10 MHz (at filament voltage 5 V, anode
anode [1]	10 kV	HauacToTe go 10 MIy (npu HanpsaXxeHusax voltage 8 kV, grid bias voltage —350 V, anode
anode [2]	8 kV	HauacToTe go 10 MIy (npu HanpsaXxeHusax voltage 8 kV, grid bias voltage —350 V, anode
anode [3]	-350 kV	HauacToTe go 10 MIy (npu HanpsaXxeHusax voltage 8 kV, grid bias voltage —350 V, anode
current0 [1]	5 A	Hakana 5 B, aHopa 8 kB, Hanpskenun current 1.6 A, gridcurrent0.4 A)
current0 [2]	8 A	Hakana 5 B, aHopa 8 kB, Hanpskenun current 1.6 A, gridcurrent0.4 A)
current0 [3]	1.6 A	Hakana 5 B, aHopa 8 kB, Hanpskenun current 1.6 A, gridcurrent0.4 A)
current0 [4]	4 A	Hakana 5 B, aHopa 8 kB, Hanpskenun current 1.6 A, gridcurrent0.4 A)
anode [1]	350 V	cmeuienns ceTku muHyc 350 B, Tokax aHoga at 10-150 MHz (at filament voltage 5 V, anode
anode [2]	10 V	cmeuienns ceTku muHyc 350 B, Tokax aHoga at 10-150 MHz (at filament voltage 5 V, anode
anode [3]	-150 V	cmeuienns ceTku muHyc 350 B, Tokax aHoga at 10-150 MHz (at filament voltage 5 V, anode
anode [4]	5 V	cmeuienns ceTku muHyc 350 B, Tokax aHoga at 10-150 MHz (at filament voltage 5 V, anode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
anode [1]	16 kV	16A,cetkmO04A) voltage 6 kV, grid bias voltage —350 V, anode
anode [2]	4 kV	16A,cetkmO04A) voltage 6 kV, grid bias voltage —350 V, anode
anode [3]	6 kV	16A,cetkmO04A) voltage 6 kV, grid bias voltage —350 V, anode
anode [4]	-350 kV	16A,cetkmO04A) voltage 6 kV, grid bias voltage —350 V, anode
current [1]	4 A	Ha 4acToTe 10—150 My (Npu HanpsiXXeHWAX current 1.35 A, gridcurrent 0.32 A)
current [2]	10 A	Ha 4acToTe 10—150 My (Npu HanpsiXXeHWAX current 1.35 A, gridcurrent 0.32 A)
current [3]	-150 A	Ha 4acToTe 10—150 My (Npu HanpsiXXeHWAX current 1.35 A, gridcurrent 0.32 A)
current [4]	1.35 A	Ha 4acToTe 10—150 My (Npu HanpsiXXeHWAX current 1.35 A, gridcurrent 0.32 A)
current [5]	320 mA	Ha 4acToTe 10—150 My (Npu HanpsiXXeHWAX current 1.35 A, gridcurrent 0.32 A)
cathode [1]	5 pF	Hakana 5 B, aHoga 6 kB, Hanpsokexnu Interelectrode capacitance in a grounded-cathode
cathode [2]	6 pF	Hakana 5 B, aHoga 6 kB, Hanpsokexnu Interelectrode capacitance in a grounded-cathode
input,atmost [1]	135	1,35A,ceTkn 0,32A) input,atmost
input,atmost [2]	32	1,35A,ceTkn 0,32A) input,atmost
output,atmost	61	MexanekTpogHbie eMKOCTY B Cxeme C 061uM output,atmost
current (peak value), A [1]	3 A	3Hadenmne), B 550 Filament current (peak value), A
current (peak value), A [2]	550 A	3Hadenmne), B 550 Filament current (peak value), A
current (DC component), A [1]	3 A	Tok Hakana (aMnauTyaHoe 3HadeHne), A 160 Grid current (DC component), A:
current (DC component), A [2]	160 A	Tok Hakana (aMnauTyaHoe 3HadeHne), A 160 Grid current (DC component), A:
Dissipation, W [1]	10150 W	Ha4dactote 10150 MMy 0.45 Dissipation, W:
Dissipation, W [2]	0.45 W	Ha4dactote 10150 MMy 0.45 Dissipation, W:

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
anode [1]	6	Paccensaemas mowHocTb, BT: anode 6-10°
anode [2]	-10	Paccensaemas mowHocTb, BT: anode 6-10°
grid [1]	6	AHOAOM . . oottt 6-10° grid ... 400
grid [2]	-10	AHOAOM . . oottt 6-10° grid ... 400
grid [3]	400	AHOAOM . . oottt 6-10° grid ... 400
frequency, MHz [1]	400 MHz	CETKOM . . ot 400 Operating frequency, MHz 150
frequency, MHz [2]	150 MHz	CETKOM . . ot 400 Operating frequency, MHz 150
anode) at the	150 C	Yactota, MMy oo 150 Envelope temperature (except for anode) at the
temperature, °C [1]	175 C	ropaden Touke, °C 175 Anode temperature, °C 200
temperature, °C [2]	200 C	ropaden Touke, °C 175 Anode temperature, °C 200
Grid Characteristic Curves: I/ '[, / [1]	5	c:\lgrggoe\z Anode-Grid Characteristic Curves: I/ '[, /5 7~ f/;',/' _: ::— 5,5
Grid Characteristic Curves: I/ '[, / [2]	7	c:\lgrggoe\z Anode-Grid Characteristic Curves: I/ '[, /5 7~ f/;',/' _: ::— 5,5
Grid Characteristic Curves: I/ '[, / [3]	55	c:\lgrggoe\z Anode-Grid Characteristic Curves: I/ '[, /5 7~ f/;',/' _: ::— 5,5

TUBE TINKER

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