ELECTRONIC TUBE REFERENCE

GM100A

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	5 V / 72 A	**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.

The 'Y-100A triode is used as an oscillator KaTtoga — npsiMoro Hakana. Cathode: directly heated. OdbopMmnerne — meTannokepaMmmyeckoe. Envelope: metal-ceramic. Oxna)geHune: aHoja — BOAAHOE NPUHYAWTENbHOE; Cooling: forced water for anode, forced air for other ele-

SOURCE OPERATING CONDITIONS

1968 Electronintorg

SOURCE PDF

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**
The 'Y	**100**	The 'Y-100A triode is used as an oscillator
anode; K1, K2 - ca	**270**	270, A - anode; K1, K2 - ca-
current, A [1]	**62 A**	TokHakana, A ... ... 62-82 Filament current, A 62-82
current, A [2]	**-82 A**	TokHakana, A ... ... 62-82 Filament current, A 62-82
current, A [3]	**62 A**	TokHakana, A ... ... 62-82 Filament current, A 62-82
current, A [4]	**-82 A**	TokHakana, A ... ... 62-82 Filament current, A 62-82
voltage	**5 A**	Tok aHoaa B UMNynbce (npvuHANPS>KEHNAX Peak anode current (at filament voltage 5 V,
voltage [1]	**5 kV**	Hakana 5 B, anona 0.5 kB. ceTku 500 B. anode voltage 0.5 kV, grid voltage 500 V. bias
voltage [2]	**0.5 kV**	Hakana 5 B, anona 0.5 kB. ceTku 500 B. anode voltage 0.5 kV, grid voltage 500 V. bias
voltage [3]	**500 kV**	Hakana 5 B, anona 0.5 kB. ceTku 500 B. anode voltage 0.5 kV, grid voltage 500 V. bias
voltage [4]	**0.5 kV**	Hakana 5 B, anona 0.5 kB. ceTku 500 B. anode voltage 0.5 kV, grid voltage 500 V. bias
voltage [5]	**500 kV**	Hakana 5 B, anona 0.5 kB. ceTku 500 B. anode voltage 0.5 kV, grid voltage 500 V. bias
voltage [1]	**400 V**	HanpsXeHun cmeuweHua munyc 400 B), voltage -400 V), A, atleast .....
voltage [2]	**-400 V**	HanpsXeHun cmeuweHua munyc 400 B), voltage -400 V), A, atleast .....

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [1]	**5 kV**	HanpskeHune sanmpaHusa oTpuuaTensHoe. abconioTHoe filament voltage 5 V. anode voltage 6 kV,
voltage [2]	**6 kV**	HanpskeHune sanmpaHusa oTpuuaTensHoe. abconioTHoe filament voltage 5 V. anode voltage 6 kV,
current [1]	**3 uA**	3HaueHue (Npy HanpsixxeHuax Hakana 5 B. anode current 0.1 A), V, at most . . . 350
current [2]	**5 uA**	3HaueHue (Npy HanpsixxeHuax Hakana 5 B. anode current 0.1 A), V, at most . . . 350
current [3]	**0.1 uA**	3HaueHue (Npy HanpsixxeHuax Hakana 5 B. anode current 0.1 A), V, at most . . . 350
current [4]	**350 uA**	3HaueHue (Npy HanpsixxeHuax Hakana 5 B. anode current 0.1 A), V, at most . . . 350
voltage [1]	**350 V**	. .. 350 Gain coefficient (at filament voltage 5 V,
voltage [2]	**5 V**	. .. 350 Gain coefficient (at filament voltage 5 V,
current [1]	**500 mA**	KO3 hrLMEHT YCUMEHNS (MPWU HAMNPSKEHUSIX anode voltages 0.5 kV and 2kV, anode current
current [2]	**2 A**	KO3 hrLMEHT YCUMEHNS (MPWU HAMNPSKEHUSIX anode voltages 0.5 kV and 2kV, anode current
power in self-excitation mode. kW [1]	**3 kW**	Toke aHoga 3 A) .. 15-28 Output power in self-excitation mode. kW
power in self-excitation mode. kW [2]	**15 kW**	Toke aHoga 3 A) .. 15-28 Output power in self-excitation mode. kW
power in self-excitation mode. kW [3]	**-28 kW**	Toke aHoga 3 A) .. 15-28 Output power in self-excitation mode. kW
filament	**10**	BbixogHasa MOLWHOCTL B PeX1MEe CaMOBO3OY)KAEHUS, at frequencies up to 10 MHz (at filament
grid bias [1]	**5 kV**	KBT: voltage 5V, anode voltage 8 kV. grid bias
grid bias [2]	**8 kV**	KBT: voltage 5V, anode voltage 8 kV. grid bias
grid [1]	**40 A**	Ha dacToTe 40 10 My (Npu HanpsixxeHwax voltage - 350V, anode current 1.6 A. grid
grid [2]	**10 A**	Ha dacToTe 40 10 My (Npu HanpsixxeHwax voltage - 350V, anode current 1.6 A. grid
grid [3]	**350 A**	Ha dacToTe 40 10 My (Npu HanpsixxeHwax voltage - 350V, anode current 1.6 A. grid

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
grid [4]	**1.6 A**	Ha dacToTe 40 10 My (Npu HanpsixxeHwax voltage - 350V, anode current 1.6 A. grid
voltage [1]	**350 V**	ceTku MuHyc 350 B. Tokax aHona 1,6 A. ceTku at 10—-150 MHz (at filament voltage 5 V.
voltage [2]	**16 V**	ceTku MuHyc 350 B. Tokax aHona 1,6 A. ceTku at 10—-150 MHz (at filament voltage 5 V.
voltage [3]	**10 V**	ceTku MuHyc 350 B. Tokax aHona 1,6 A. ceTku at 10—-150 MHz (at filament voltage 5 V.
voltage [4]	**-150 V**	ceTku MuHyc 350 B. Tokax aHona 1,6 A. ceTku at 10—-150 MHz (at filament voltage 5 V.
voltage [5]	**5 V**	ceTku MuHyc 350 B. Tokax aHona 1,6 A. ceTku at 10—-150 MHz (at filament voltage 5 V.
voltage [1]	**0.4 kV**	0.4 A) L 10 anode voltage 6 kV. bias voltage -350 V.
voltage [2]	**10 kV**	0.4 A) L 10 anode voltage 6 kV. bias voltage -350 V.
voltage [3]	**6 kV**	0.4 A) L 10 anode voltage 6 kV. bias voltage -350 V.
voltage [4]	**-350 kV**	0.4 A) L 10 anode voltage 6 kV. bias voltage -350 V.
current [1]	**10150 A**	Ha dactoTe 10150 Mru (npmHanpPs>KeHnsIx anode current 1.35 A. grid current 0.32 A) .. ..
current [2]	**1.35 A**	Ha dactoTe 10150 Mru (npmHanpPs>KeHnsIx anode current 1.35 A. grid current 0.32 A) .. ..
current [3]	**320 mA**	Ha dactoTe 10150 Mru (npmHanpPs>KeHnsIx anode current 1.35 A. grid current 0.32 A) .. ..
cathode [1]	**5 pF**	Hakana 5 B. anoga 6 kB. HanpsikeHun cmewenna Interelectrode capacitance in a grounded-cathode
cathode [2]	**6 pF**	Hakana 5 B. anoga 6 kB. HanpsikeHun cmewenna Interelectrode capacitance in a grounded-cathode
output. at most	**6**	MexxanekTpoaHbIE EMKOCTY B CXEME C 06u4vw| Kartoaom. output. at most
current (peak value). A [1]	**3 A**	3HaweHwe), B ... 550 Filament current (peak value). A. 160
current (peak value). A [2]	**550 A**	3HaweHwe), B ... 550 Filament current (peak value). A. 160
current (peak value). A [3]	**160 A**	3HaweHwe), B ... 550 Filament current (peak value). A. 160

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current (DC component), A	**160 A**	.. .. .. 160 Grid current (DC component), A:
Dissipation, W	**0.45 W**	... . 0.45 Dissipation, W:
anode [1]	**6**	Paccevsaemas MOwHOCTL, BT: anode . ... 6-10°
anode [2]	**-10**	Paccevsaemas MOwHOCTL, BT: anode . ... 6-10°
frequency, MHz [1]	**400 MHz**	COTKOM .\t o ittt 400 Operating frequency, MHz 150
frequency, MHz [2]	**150 MHz**	COTKOM .\t o ittt 400 Operating frequency, MHz 150
temperature at the hottest point, °C [1]	**150 C**	Yactota, My . ... 150 Envelope temperature at the hottest point, °C 175
temperature at the hottest point, °C [2]	**175 C**	Yactota, My . ... 150 Envelope temperature at the hottest point, °C 175

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