

ELECTRONIC TUBE REFERENCE

GMI37A

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Russian high-current pulse-switching triode designed as the power switch in RF pulse modulators and related pulsed-power equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	26 V / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	50000 V
Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.	

The GMI-37A triode is used for power switching in pulse modulators in RF equipment. It has a directly heated carbonized thoriated-tungsten cathode, metal-ceramic envelope, and water 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
power switching in [1]	37 W	UmnyncbHbin - MogynaTopHbid Tpuog ['MU-37A The TMW-37A triode is used for power switching in
power switching in [2]	37 W	UmnyncbHbin - MogynaTopHbid Tpuog ['MU-37A The TMW-37A triode is used for power switching in
temperature, °C [1]	-60 C	.. . —60+85 Ambient temperature, °C —601t0 +85
temperature, °C [2]	85 C	.. . —60+85 Ambient temperature, °C —601t0 +85
temperature, °C [3]	-601 C	.. . —60+85 Ambient temperature, °C —601t0 +85
temperature, °C [4]	85 C	.. . —60+85 Ambient temperature, °C —601t0 +85
voltage (ACorDC), V [1]	26 V	... 26 Filament voltage (ACorDC), V 26
voltage (ACorDC), V [2]	26 V	... 26 Filament voltage (ACorDC), V 26
voltage, kV [1]	225 kV	HanpsikeHne npeBbileHns ceTkM B uMnysibce, KB . . 2,25 Peak (excess) grid voltage, kV 2.25
voltage, kV [2]	2.25 kV	HanpsikeHne npeBbileHns ceTkM B uMnysibce, KB . . 2,25 Peak (excess) grid voltage, kV 2.25
current [1]	3 mA	abonoTHOe 3Ha4YeHue (Npu HaNpsHXeHun aHoaa voltage 55 kV, anode current 25 mA), kV, at most . . 4.3
current [2]	55 mA	abonoTHOe 3Ha4YeHue (Npu HaNpsHXeHun aHoaa voltage 55 kV, anode current 25 mA), kV, at most . . 4.3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [3]	25 mA	abonoTHOe 3Ha4YeHue (Npu HaNpsHXeHun aHoaa voltage 55 kV, anode current 25 mA), kV, at most . . . 4.3
current [4]	4.3 mA	abonoTHOe 3Ha4YeHue (Npu HaNpsHXeHun aHoaa voltage 55 kV, anode current 25 mA), kV, at most . . . 4.3
grid [1]	55 mA	55 kB, Toke aHoga 25 MA), kB, He 6onee 4.3 Peak anode current (at anode voltage 10 kV, grid
grid [2]	25 mA	55 kB, Toke aHoga 25 MA), kB, He 6onee 4.3 Peak anode current (at anode voltage 10 kV, grid
grid [3]	6 mA	55 kB, Toke aHoga 25 MA), kB, He 6onee 4.3 Peak anode current (at anode voltage 10 kV, grid
grid [4]	4.3 mA	55 kB, Toke aHoga 25 MA), kB, He 6onee 4.3 Peak anode current (at anode voltage 10 kV, grid
grid [5]	10 mA	55 kB, Toke aHoga 25 MA), kB, He 6onee 4.3 Peak anode current (at anode voltage 10 kV, grid
pulse [1]	-1 kV	Tok aHOAa B UMNyNbCe (MPU HANPs>KeHUSAX voltage —1 kV, filament voltage 26 V, pulse
pulse [2]	26 kV	Tok aHOAa B UMNyNbCe (MPU HANPs>KeHUSAX voltage —1 kV, filament voltage 26 V, pulse
frequency [1]	10 Hz	aHoaa 10 kB, ceTku muHyc 1 kB, Hakana 26 B, duration 10 us, pulse frequency 100 Hz, reservoir
frequency [2]	1 Hz	aHoaa 10 kB, ceTku muHyc 1 kB, Hakana 26 B, duration 10 us, pulse frequency 100 Hz, reservoir
frequency [3]	26 Hz	aHoaa 10 kB, ceTku muHyc 1 kB, Hakana 26 B, duration 10 us, pulse frequency 100 Hz, reservoir
frequency [4]	10 Hz	aHoaa 10 kB, ceTku muHyc 1 kB, Hakana 26 B, duration 10 us, pulse frequency 100 Hz, reservoir
frequency [5]	100 Hz	aHoaa 10 kB, ceTku muHyc 1 kB, Hakana 26 B, duration 10 us, pulse frequency 100 Hz, reservoir
anode circuit), A, atleast [1]	10 pF	ANUTenbHOCTK UMnynbca 10 MKC, YacToTe capacitor 50 uyF in anode circuit), A, atleast

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
anode circuit), A, atleast [2]	50 pF	ANUTenbHOCTK UMnynbca 10 MKC, YacToTe capacitor 50 uyF in anode circuit), A, atleast
grid [1]	100 A	nosTopeHus umnyneca 100 Ny, HakoNUTEeNbLHOW Peak grid current (at anode voltage 10 kV, grid
grid [2]	10 A	nosTopeHus umnyneca 100 Ny, HakoNUTEeNbLHOW Peak grid current (at anode voltage 10 kV, grid
frequency [1]	50 Hz	EeMKOCTY B Uenun aHoga 50 mkd), A, He MeHee 1000 voltage —1KkV, pulse duration 10 us, pulse frequency
frequency [2]	1000 Hz	EeMKOCTY B Uenun aHoga 50 mkd), A, He MeHee 1000 voltage —1KkV, pulse duration 10 us, pulse frequency
frequency [3]	-1 Hz	EeMKOCTY B Uenun aHoga 50 mkd), A, He MeHee 1000 voltage —1KkV, pulse duration 10 us, pulse frequency
frequency [4]	10 Hz	EeMKOCTY B Uenun aHoga 50 mkd), A, He MeHee 1000 voltage —1KkV, pulse duration 10 us, pulse frequency
anode [1]	100 pF	Tok ceTku B Mnynece (Mpy HANPs>XXeHUAX 100 Hz, reservoir capacitor 50 uF in anode
anode [2]	50 pF	Tok ceTku B Mnynece (Mpy HANPs>XXeHUAX 100 Hz, reservoir capacitor 50 uF in anode
Interelectrode capacitance, pF	100 pF	100 My, HaKONMTEeNBLHOM EMKOCTY B Lieny aHoaa Interelectrode capacitance, pF:
input,atmost . . . L [1]	50	50 MK®D), A,HEBOMEe 180 input,atmost . . . L 450
input,atmost . . . L [2]	180	50 MK®D), A,HEBOMEe 180 input,atmost . . . L 450
input,atmost . . . L [3]	450	50 MK®D), A,HEBOMEe 180 input,atmost . . . L 450
output,atmost [1]	6	Bpems roToBHOCTU, C,He 6onee 60 output,atmost
output,atmost [2]	60	Bpems roToBHOCTU, C,He 6onee 60 output,atmost
voltage (ACorDC),V [1]	247 V	HanpsxeHue Hakana (~uwm =), B 24,7-27,3 Filament voltage (ACorDC),V 24.7-27.3
voltage (ACorDC),V [2]	-273 V	HanpsxeHue Hakana (~uwm =), B 24,7-27,3 Filament voltage (ACorDC),V 24.7-27.3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage (ACorDC),V [3]	24.7 V	HanpsxeHue Hakana (~uwm =), B 24,7-27,3 Filament voltage (ACorDC),V 24.7-27.3
voltage (ACorDC),V [4]	-27.3 V	HanpsxeHue Hakana (~uwm =), B 24,7-27,3 Filament voltage (ACorDC),V 24.7-27.3
current, A [1]	1150 mA	Hav6onblumnii nyckoBOn TOK Hakana, A 1150 Maximum filament starting current, A 1,150
current, A [2]	1150 mA	Hav6onblumnii nyckoBOn TOK Hakana, A 1150 Maximum filament starting current, A 1,150
voltage, kV ol [1]	50 kV	HawGonblee HanpsbkeHne aHoga, kB 50 Anode voltage, kV ol 50
voltage, kV ol [2]	50 kV	HawGonblee HanpsbkeHne aHoga, kB 50 Anode voltage, kV ol 50
voltage, absolute value, V	4.3 V	Haub6onbliee oTpuuaTenbHOE HaNpPs»KeHne ceTku Negative grid voltage, absolute value, V. 4.3
voltage, kV [1]	3 kV	(abconoTHoe 3HadeHue), B L 43 Peak (excess) grid voltage, kV 25
voltage, kV [2]	43 kV	(abconoTHoe 3HadeHue), B L 43 Peak (excess) grid voltage, kV 25
voltage, kV [3]	25 kV	(abconoTHoe 3HadeHue), B L 43 Peak (excess) grid voltage, kV 25
grid	1	Paccensaemas Han6onbLas MOWHOCTb, KBT: grid ... 1
pulse duration, us [1]	50 us	BHOOOM ..ottt 50 Maximum pulse duration, us 100
pulse duration, us [2]	100 us	BHOOOM ..ottt 50 Maximum pulse duration, us 100
Anode Voftage o o [1]	200	Grid Vofiage versus Anode Voftage o o 200 SNNSNmEmiAY 15
Anode Voftage o o [2]	15	Grid Vofiage versus Anode Voftage o o 200 SNNSNmEmiAY 15

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