



ELECTRONIC TUBE REFERENCE

GMI34A

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	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	40000 V
MAXIMUM CATHODE CURRENT	120 A
<i>Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.</i>	

The GMI-34A triode is used as a pulse power switch in RF equipment. It has a 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 switch [1]	34 W	VMNynbCHbIA MOAYNATOPHbIN Tpuog [MU-34A The TMU-34A triode is used as a pulse power switch
power switch [2]	34 W	VMNynbCHbIA MOAYNATOPHbIN Tpuog [MU-34A The TMU-34A triode is used as a pulse power switch
grid [1]	1	g - T' r'lTc\sj_ 'fi{ 1} 1 heater; C - grid;
grid [2]	1	g - T' r'lTc\sj_ 'fi{ 1} 1 heater; C - grid;
anode; ! - contact	0	oy hd] 0~ A - anode; ! - contact
temperature, °C	1470 C	ies 1470 Ambient temperature, °C
voltage (ACorDC), V	26 V	HanpspeHue Hakana (~wnm =), B 26 Heater voltage (ACorDC), V
voltage (DC), kV	6 kV	 6 Anode voltage (DC), kV
voltage, V [1]	250 V	HanpsixeHue ceTku oTpuuatensHoe, B 250 Negative grid voltage, V , 250
voltage, V [2]	250 V	HanpsixeHue ceTku oTpuuatensHoe, B 250 Negative grid voltage, V , 250
voltage, kV	1.3 kV	Hanps>keHvie ceTkm B uMmrnynsce Peak (excess) grid voltage, kV 1.3
current, A, atleast [1]	1.3 A	(u3bbITOUHOE), KB 1.3 Peak anode current, A, atleast 120
current, A, atleast [2]	120 A	(u3bbITOUHOE), KB 1.3 Peak anode current, A, atleast 120
current, A,atmost	120 A	Tok aHoAa B UMNynbce, A, HEMeHee 120 Peak grid current, A,atmost

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage, absolute value, V [1]	6 V	Tok ceTku B umnysibce, A, He 6onee 0,1 Negative cutoff voltage, absolute value, V,
voltage, absolute value, V [2]	1 V	Tok ceTku B umnysibce, A, He 6onee 0,1 Negative cutoff voltage, absolute value, V,
Interelectrode capacitance, pF [1]	6 pF	Bpems rotoBHOCTM, C, He 6onee 300 Interelectrode capacitance, pF:
Interelectrode capacitance, pF [2]	300 pF	Bpems rotoBHOCTM, C, He 6onee 300 Interelectrode capacitance, pF:
input	450	MexanekTpogHble eMkocTy, Nd, He bonee: input 450
output	450	BXOAHAN . oo v n ittt 450 output
voltage (ACorDC), V [1]	247 V	Hanpsikenve Hakana (~vwnm=),B 24,7-27,3 Heater voltage (ACorDC), V
voltage (ACorDC), V [2]	-273 V	Hanpsikenve Hakana (~vwnm=),B 24,7-27,3 Heater voltage (ACorDC), V
voltage, kV	40 kV	 40 Anode voltage, kV
voltage, absolute value, V [1]	250 V	OTtpyaaTenbHOe HanpsKeHNe CeTKN Negative peak grid voltage, absolute value, V 250-300
voltage, absolute value, V [2]	-300 V	OTtpyaaTenbHOe HanpsKeHNe CeTKN Negative peak grid voltage, absolute value, V 250-300
voltage, kV [1]	3 kV	B MNy/ibce (a6ConoTHOE 3HadeHne), B 250-300 Peak grid voltage, kV
voltage, kV [2]	250 kV	B MNy/ibce (a6ConoTHOE 3HadeHne), B 250-300 Peak grid voltage, kV
voltage, kV [3]	-300 kV	B MNy/ibce (a6ConoTHOE 3HadeHne), B 250-300 Peak grid voltage, kV
BuMnynece, kB ... ol [1]	19	BuMnynece, kB ... ol 1,9 at 1/duty factor atleast500 150
BuMnynece, kB ... ol [2]	1	BuMnynece, kB ... ol 1,9 at 1/duty factor atleast500 150
BuMnynece, kB ... ol [3]	0	BuMnynece, kB ... ol 1,9 at 1/duty factor atleast500 150
BuMnynece, kB ... ol [4]	150	BuMnynece, kB ... ol 1,9 at 1/duty factor atleast500 150
Han6onbtumii Tok kaTtoga B uMnynbce, A: at [1]	1	Han6onbtumii Tok kaTtoga B uMnynbce, A: at 1/duty factor atleast1,000 200
Han6onbtumii Tok kaTtoga B uMnynbce, A: at [2]	0	Han6onbtumii Tok kaTtoga B uMnynbce, A: at 1/duty factor atleast1,000 200

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Han6onbtumii Tok kaTtoga B uMnynbce, A: at [3]	200	Han6onbtumii Tok kaTtoga B uMnynbce, A: at 1/duty factor atleast1,000 200
Dissipation, W [1]	1000 W	NPV CKBaXXHOCTM He Mere 1000 200 Dissipation, W:
Dissipation, W [2]	200 W	NPV CKBaXXHOCTM He Mere 1000 200 Dissipation, W:
anode	250	Haubonbwid Tok aHoga, A 250 anode
anode = = ==	2	- — — — grid 2-anode = = ==