



ELECTRONIC TUBE REFERENCE

GMI42B

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian high-current pulse-power switching triode with large peak-current capability for pulse-modulator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	26 V / 3.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0004 S
MAXIMUM PLATE VOLTAGE	33000 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM GRID DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	9 A
<i>Promoted from published pulse switching limits; non-promoted pulse quantities retained as parameters.</i>	

The GMI42B is a pulse-power switching triode with large peak-current capability.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	3.2 A–3.6 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	30000 V	—
Peak anode current	30 A	—
Peak cathode current	9 A	—
Negative cutoff/bias voltage	200 V	—
Peak excess grid voltage	1400 V	—
Maximum pulse duration	50 us	—
Pulse 1/duty factor minimum	33	—
Minimum warm-up time at 30 A	3 min	—
Minimum warm-up time at 8 A / 25 kV	2 min	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance maximum	130 pF	—
Output capacitance maximum	25 pF	—
Transfer capacitance maximum	2 pF	—

199X Svetlana

Published test conditions and operating points. Values on this page are preserved as reported by this source.

199X SVETLANA
Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
features anode operating voltage of	33000 V	SourcePage1-2
Current 3400(± 250) mA 14	9 min	SourcePage1-2
Heating time	3 min	SourcePage1-2
Heater-cathode voltage, peak ±	100 V	SourcePage1-2
Input <	130 pF	SourcePage1-2
Output <	25 pF	SourcePage1-2
Feedback <	2 pF	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	33000 V	SourcePage1-2
Cathode current, pulse (max duration)	50 µS	SourcePage1-2
Grid voltage, negative	-600 V	SourcePage1-2
Grid voltage, positive (in pulse)	1400 V	SourcePage1-2
Maximum grid dissipation	25 W	SourcePage1-2
Anode voltage	2500 V	TypicalOperation
Grid voltage, negative	-200 V	TypicalOperation
Grid voltage when switched on, positive	1350 V	TypicalOperation
Pulse duration	10 µS	TypicalOperation
Anode current when switched on	30 A	TypicalOperation
Grid current when switched on <	4.5 A	TypicalOperation
Pa =	500 W	TypicalOperation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Svetlana GMI-42B	300 W	TypicalOperation
Grid Current	200 W	TypicalOperation

TUBE TINKER

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and their source documents.

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