



ELECTRONIC TUBE REFERENCE

6N17B

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Russian double triode designed for low-frequency voltage amplification, providing two triode sections for general small-signal amplifier circuitry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0035 S
AMPLIFICATION FACTOR	75
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.9 W
MAXIMUM CATHODE CURRENT	10 mA
Bilingual Russian/English datasheet; English text used as primary extraction source.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0035 S
AMPLIFICATION FACTOR	75
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.9 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Second identical physical triode section; added to align rows with SectionCount.</i>	

The 6H17B double triode is designed for ampli-

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Russian

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

195X RUSSIAN

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol HU3KOH	4 A	JieHHs1 HalpsKeHHst HU3KOH 4acTOTH. fication of low-frequency voltage.
Published electrical parameter	6 pA	6panuonHbix A0 10 g, yaapHbBIX MHOIOKPATHHIX A0 bration loads up to 10 g, multiple impact loads up
Source symbol OBEYHOCTH	750 W	TapanTupoBaHHasi ZOJATOBHEYHOCTH 750 wacos. Service life guarantee: 750 hr.
Source symbol U,	63 V	U, 63V I,?) 3,3+1 mA
Published electrical parameter	3.3+1 mA	U, 63V I,?) 3,3+1 mA
Source symbol I,	40040 mA	I, 40040 mA S2) 38+1 mA/V
Published electrical parameter	38+1 mA/V	I, 40040 mA S2) 38+1 mA/V
Source symbol U,	200 V	U, 200V w?) 7515
Source symbol Cataz	457515 pF	Cae 29705 F Cataz 0457515 pF
Source symbol Co	1705 pF	Co 1705 pF Cup <7 pF
Source symbol Cup	<7 pF	Co 1705 pF Cup <7 pF
Source symbol Cgra	16205 pF	Cgra 16205 pF
Source symbol Uy	69 V	Uy 69V 57V I 10 mA
Source symbol V	57 V	Uy 69V 57V I 10 mA
Source symbol I	10 mA	Uy 69V 57V I 10 mA
Source symbol U,	250 V	U, 250 V Ui +150 V
Published electrical parameter	150 V	U, 250 V Ui +150 V
Published electrical parameter	350 V	u,!) 350V RgT 2 1 MQ

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	1 MΩ	u,!) 350V RgT 2 1 MΩ
Published electrical parameter	-50 V	UgT —-50V Teannona 170°C
Source symbol P,	9 W	P, 09W bulb
Source symbol Ilpu	3 A	1) Ilpu 3ameproit Jjamme, npu I <5 pA.
Source symbol I	<5 pA	1) Ilpu 3ameproit Jjamme, npu I <5 pA.
Source symbol I,	<5 pA	With the tube cutoff, at I, <5 pA.
Published electrical parameter	2 MΩ	2) Honyckaercsa RgT=2 MΩ, mpn P, =06 W 1 aBTOMATHYECKOM CMEIEHHH.
Published electrical parameter	6 W	2) Honyckaercsa RgT=2 MΩ, mpn P, =06 W 1 aBTOMATHYECKOM CMEIEHHH.
Source symbol W	1 A	2) Honyckaercsa RgT=2 MΩ, mpn P, =06 W 1 aBTOMATHYECKOM CMEIEHHH.
Published electrical parameter	0.6 W	RgT=2 M® is admitted at P, =0.6 W and for self-bias.
Source symbol S	6 mA	S6max
Published electrical parameter	200 V	200V,
Source symbol A	1 A	. [T 1] o1 XA A1 A 4
Published electrical parameter	63 V	____ P,max Un=63V Up=63V
Source symbol A	75 V	D A 75V
Published electrical parameter	7 A	35\% 7AT
Published electrical parameter	50 V	N~ /'(\ ~_ 50V J
Published electrical parameter	125 V	g v <= e~ 125V
Published electrical parameter	10 V	— 10V
Published electrical parameter	26 V	10 564 10+ 42 . 26V
Published electrical parameter	0 Ω	0 Q5 10 15 20 25 30 35 IamA g 100 200 300 400 UgV
Published electrical parameter	100 V	____ u U, =100V —_—— IgT imp fimp =1 kHz

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	1 kHz	_____ u U, =100V —_—— IgT imp fimp =1 kHz


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1970 Russian Tubes Mashpriborintorg

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

1970 RUSSIAN TUBES MASHPRIBORINTORG

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	63 V	Published datasheet line: U, 63V I,?) 3,3+1 mA
I	40040 mA	Published datasheet line: I, 40040 mA S2) 38+1 mA/V
U	200 V	Published datasheet line: U, 200V w?) 7515
Cae	29705 pF	Published datasheet line: Cae 29705 F Cataz 0457515 pF
Co	1705 pF	Published datasheet line: Co 1705 pF Cup <7 pF
Cgra	16205 pF	Published datasheet line: Cgra 16205 pF
Uy	69 V	Published datasheet line: Uy 69V 57V I 10 mA
U	250 V	Published datasheet line: U, 250 V Ui +150 V
u)	350 V	Published datasheet line: u,!) 350V RgT 2 1 MQ
UgT	-50 V	Published datasheet line: UgT —-50V Teannona 170°C
P	9 W	Published datasheet line: P, 09W bulb
PublishedValue	2 MQ	Published datasheet line: 2) Honyckaercsa RgT=2 MQ, mpn P, =06 W 1 aBTOMATHYECKOM CMEIEHHH.
RgT	2 W	Published datasheet line: RgT=2 M® is admitted at P, =0.6 W and for self-bias.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U _y	69 V	Published datasheet line: U _y 69V 57V I 10 mA
U	250 V	Published datasheet line: U, 250 V U _i +150 V
u)	350 V	Published datasheet line: u,!) 350V R _{gT} 2 1 MQ
U _{gT}	-50 V	Published datasheet line: U _{gT} —50V Teannona 170°C
P	9 W	Published datasheet line: P, 09W bulb
PublishedValue	2 MQ	Published datasheet line: 2) Honyckaercsa R _{gT} =2 MQ, mpn P, =06 W 1 aBTOMATHYECKOM CMEIEHHH.
R _{gT}	2 W	Published datasheet line: R _{gT} =2 M® is admitted at P, =0.6 W and for self-bias.


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1981 Russian Tubes Katsnelson and Larionov

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

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal heater condition.
Heater current	400 mA	Published heater current.
Plate current	3.3 mA	Published basic-parameter operating point.
Transconductance	3500 μS	Published basic-parameter value; normalized to μS.
Amplification factor	75	Published basic-parameter value.
Service life	3000 h	Published service-life figure.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published limiting operating value.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode current	10 mA	Published limiting cathode-current value.
Maximum plate dissipation	0.9 W	Published per-triode plate dissipation.

TUBE TINKER

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