ELECTRONIC TUBE REFERENCE

6Z52P

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Wideband low-noise Russian pentode developed for sensitive amplifier input stages and television signal amplification.

General characteristics

BASE DESIGNATION	B9A	**BASE PINS**	9
NOMINAL HEATER	6.3 V / 330 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Pentode

TRANSCONDUCTANCE	0.15 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	70 mA

English-primary bilingual extraction; published ratings promoted where clear.

PENTODE 6rRo2l] Ulupokomonocueii Manowymsamuit nenroa 6XK52I1 The wide-band, low-noise 63K52IT pentode has been npenHa3HayeH A1 paboThl BO BXOAHBIX KackaaaX yCHJH- designed for use in input stages of amplifiers under

SOURCE OPERATING CONDITIONS

195X Russian

SOURCE PDF

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

195X RUSSIAN

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
PENTODE	**6**	PENTODE 6rRo2l]
Ulupokomonocueii Manowymsamuit nenroa	**63**	Ulupokomonocueii Manowymsamuit nenroa 6XK52I1 The wide-band, low-noise 63K52IT pentode has been
Teneil B	**100 V**	Teneil B 3KOHOMHYHOM pexHMe (MpH HANpsSXXeHHH aHoda econoniic operating conditions {ut anode voltage 100 V)
Published electrical value	**4**	100 B) 4 B BLIXOAHBIX KACKAOAaX 4epHO-OENIbIX M LUBETHbLIX and in output stages of black-and-white and colour
TENIEBU	**20 V**	TENIEBU3HOHHBIX TPHEMHHKOB (fIpH HAMpPsikeHHH aHOZa television receivers (at anode voltage 130—20G0 V).
Published electrical value	**3.4**	$225max $222-3.4
!/ — katon	**10**	!/ — katon; 2 — ceTka repsas: J — KaTO4; 4 — 10OAOrpeBATE/Ib!
Published electrical value	**7**	5 — nomorpesartenks; 6 — ¢BOOOAHBIN: 7 — antod; § — ceTka
=< / — cathode	**5**	=< / — cathode: 2 — grid 1: 3 — cathode: 4 — heater; 5 — heater:
Published electrical value	**2**	6 — vacant: 7 — anode: § — grid 3: ¥ — grid 2
I — wucnonnenue	**1**	I — wucnonnenue 1: Il — ucnon- :
HeHne	**45**	HeHne 2 45
[— form t, /I — form	**2**	[— form t, /I — form 2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
BufpaunoHHple HArpy	**60 Hz**	BufpaunoHHple HArpy3Ku B [HAma3OHE 4acToT Of | Vibration: at frequencies from 1 to 60 Hz with
Harpy	**15**	Harpy3ku ¢ yckopeHnuem 10 15 g. TemnepaTypa okpyxaro-
s ennanancenconeennas	**6.3**	s ennanancenconeennas 6,3 heater . ... i 6.3
BHOMA « v veeeet e ae ettt aenanieeaaannas	**100 V**	BHOMA « v veeeet e ae ettt aenanieeaaannas 100 anode ... 100
CETKH BTOPOM ... iitiiie e ieeneananennnns	**150**	CETKH BTOPOM ... iitiiie e ieeneananennnns 150 grid 2 L 150
HAKATA o vve et e e e e e e e e e	**330440 mA**	HAKATA o vve et e e e e e e e e e 330440 Current, mA:
Published electrical value	**2112**	19 heater ...l 2112
BHORA + e v v eve e nae e e e ineaeeaenaennn	**42112 V**	BHORA + e v v eve e nae e e e ineaeeaenaennn 42112 anode
CETKHM BTOPOH . ..ottt iien e =	**8**	CETKHM BTOPOH . ..ottt iien e =8 ida e e
Published electrical value	**8**	o 24 grid 2 e =8
DKBHBAJIEHTHOE CONPOTHBIIEHKE WyMOB, OM ... . =	**24 Ohm**	DKBHBAJIEHTHOE CONPOTHBIIEHKE WyMOB, OM ... . =150 Resistance in cathode circuit, Ohm 24
KpyTH	**150 mA**	KpyTH3na xapakTepuCTHKH, MA/B . ..... 55_*;’13 Equivalent noise resistance, Ohm ..... =150
OB	**551 V**	OB6paTHbIit TOK CETKHM NepBOil (IPY HANPSKEHHH CETKH Transconductance, mA/V ..... eenn 551:;
nepsoit —	**-1.3 V**	nepsoit — 1,3 B ¥ conpoTHBnesuu B ee uenu 0,5 MOm), Inverse grid 1 current, at grid 1 voltage —1.3 V and
Published electrical value	**0.2 MOhm**	. 9 P =0,2 resistance 0.5 MOhm in grid 1 circuit, pA ..... =0.2
BroAuan	**132577**	BroAuan 132577
BBIXOIHAT .o vtvevnnviennneannenneennnrcnannas	**1.875**	BBIXOIHAT .o vtvevnnviennneannenneennnrcnannas 1,875
HDUL - .o	**0.7**	HDUL - .o 13.543.5 +0.7
Published electrical value	**1.8745**	.2 OULPUL ... ittt 1.8745

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TPOXOMHAA .« v vveenertee onenraenensanonennn =	**5 V**	TPOXOMHAA .« v vveenertee onenraenensanonennn =0,05 transfer <005
DreKTpHUECKHE NMapamMeTphi B Tewenme	**4**	DreKTpHUECKHE NMapamMeTphi B Tewenme 3000 4 okemny- tamsfer ..o X
aTalHH: Electrical parameters over	**3000**	aTalHH: Electrical parameters over 3000 operating hours:
KPYTH	**36 mA**	KPYTH3HA XapakTepUCTHKH, MA/B ..... =36 transconductance, mA/YV ... ... .o 0. =36
oOpaTHBI TOK CETKU NEPBOH, MKA ..... =	**2**	oOpaTHBI TOK CETKU NEPBOH, MKA ..... =2 inverse grid 1 current, LA ..... =2
Ilpeneannbie	**3**	Ilpeneannbie 3Ha4YeHns JONYCTHMBIX Limit Values of Operating
HAKATIA © - oovvvrnenmnenennnes	**5.7**	HAKATIA © - oovvvrnenmnenennnes 7,0 5,7 heater 7.0 5.7
Published electrical value	**350**	7: N 350 anode .....eiiiiii e 350
CETKH BTOPOH	**250**	CETKH BTOPOH ..... 250 grid2 ..., 250
Published electrical value	**1**	1IpY NOJOXHUTEILHOM IOTEH- with heater at positive poten-
nyase noaorpesaTrens	**100**	nyase noaorpesaTrens ..... 100 tial ..o 100
uMane rnoacrpeBaTens	**100**	uMane rnoacrpeBaTens .. .. 100 tial ... 100
aHopa npu	**500**	aHopa npu 3anepTod namne .... 500 anode in cut-off valve 500
Tok katoga, MA	**70 mA**	Tok katoga, MA ..... 70 Cathode current, mA 70
pacceMBaemasi aHOOOM	**10**	pacceMBaemasi aHOOOM ..... 10 atanode 10
paccenBaeMas ceTko# Bropoii	**1.2**	paccenBaeMas ceTko# Bropoii ... 1,2 atgrid2..... ... ool 1.2
HarpeToit yactu),°C	**250**	HarpeToit yactu),°C ..... 250 tion), °C ... 250
S B ¢ - vgr=	**0**	S B ¢ - vgr= 0T
UgV	**250**	UgV -28 -24 -20 -16 -2 08 -0% 0 0 30 100 150 200 250 UpV

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	**2**	1 — TOK aHON2; 2 — TOK CETKH BTOPOil; 3 — KPYyTH3HA XapakTe- 1] — TOK aHOJa; 2 — TOK CETKM BTOPOH
PUCTHKH Un=	**150 V**	PUCTHKH Un=6,3V, Ugpr=150 V
Averaged characteristics	**2**	Averaged characteristics: 1 — anode current; 2 — grid 2 current
| — anode current	**150**	| — anode current: 2 — grid 2 current; 3 — transconductance Un=63V,Up=150V

Tube Tinker

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