



ELECTRONIC TUBE REFERENCE

6Z5P

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Full-wave vacuum rectifier for electronic power-supply service. Its 6.3 V heater and dual rectifier sections provide conventional AC-to-DC conversion in receiver and general equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PLATE RESISTANCE	350 Ω
TRANSCONDUCTANCE	0.0056 S
MAXIMUM PLATE DISSIPATION	2 W
<i>English-primary bilingual extraction; published ratings promoted where clear.</i>	

SECTION2 Rectifier	
<i>No fixed ratings recorded.</i>	
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Full-wave rectifier tube for power-supply service.

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 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PENTODE	6	PENTODE 6o1
IleHTOR C BBICOKON KPYTH	62	IleHTOR C BBICOKON KPYTH3HOH XapaKTEePHCTHKH The 62K5I high-transconductance pentode has been
Published electrical value	6	6JK5I1 mpenHasHaveH AMs yCWIEHHA HaNpsXeHHs BHICO- designed for h.f. voltage amplification in electronic
KOH	9	KOH 9acTOTHI B paJHOTEXHHYECKUX YCTPOHCTBAX. devices.
Published electrical value	3	1 — ceTka nepBad; 2 — ny4eoOpasyiomue mIacTHHel, 3 — O0g0-
rpesatenk	6	rpesatenk; 4 — MOAOpeBaTe/b; 5 — aHOL; 6 — ceTKa BTODaA;
Published electrical value	7	7 — xarton
Published electrical value	4	1 — grid 1; 2 — beam-forming plates; 3 — heater; 4 — heater;
Published electrical value	7	5 — anode; 6 — grid 2; 7 — cathode
BubpauuoHHble Harpy	60 Hz	BubpauuoHHble Harpy3kd B QMANa3OHE YacToT OT Vibration: at frequencies from 1 to 60 Hz with
Published electrical value	2	1o 60 I'u ¢ yckopesueM 10 2 g. MHOTOXpaTHbIE YAApHbIE
HArpy	15	HArpy3KkH ¢ yckopeHHeM 1o 15 g. Temnepatypa okpyxaro-
Published electrical value	6.3	5:1.- T ¢ N 6,3 heater o
Published electrical value	300	E:1: (o)1 ¢ K 300 anode ... e e 300

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CETKH BTOPOR ciiieininnnnnnnenennnns	150	CETKH BTOPOR ciiieininnnnnnnenennnns 150 grid 2 L e e 150
HAKAMA o iniiintttineeeennanennnnaneennaness	25	HAKAMA o iniiintttineeeennanennnnaneennaness 450+25 heater ..ot
Published electrical value	2.8	-1 {0 10+2,8 anode ... 10+2.8
CETKH BTOPOM vvvrnrenrrnnnnnnrennnnnns =	2.8	CETKH BTOPOM vvvrnrenrrnnnnnnrennnnnns =28 =4 o (157N =<2.8
ConpOoTHBNEHHE B LerMH KaToRa, OM	160 Ohm	ConpOoTHBNEHHE B LerMH KaToRa, OM 160 Resistance in cathode circuit, Ohm 160
BHyTpeHEee compoTHBIEHHe, KOM	350	BHyTpeHEee compoTHBIEHHe, KOM 350
Internal resistance, kOhm	350 kOhm	Internal resistance, kOhm 350
Kpyra	91 mA	Kpyra3na xapaxkrepactuka, MA/B 91;
Transconductance, mA/V ol	91 V	Transconductance, mA/V ol 91%
B Uemn ceTkd nepsoit	1 kOhm	B Uemn ceTkd nepsoit 200 xOM), MKA =0,5 Inverse grid 1 current, at resistance 200 kOhm in grid 1
Emxocts	500 mA	Emxocts, 00: CITCUIt, A L. i =0.5
BXOHHA .. vvvnrrnerrnnennneenssnnsnneronesnns	84 pF	BXOHHA .. vvvnrrnerrnnennneenssnnsnneronesnns 84t16 Capacitance, pF:
Published electrical value	1.6 A	207 1: - . (A 2,15+0,45 INPUL (Lti et 8.4+1.6
TPOXOMHAN .. .ivivenn v ianenneonnennnanenn =	314 V	TPOXOMHAN .. .ivivenn v ianenneonnennnanenn =0,03 [0 314
OnexTpryckre napaMeTpal B Tedenue	4	OnexTpryckre napaMeTpal B Tedenue 5000 4 sKcruty-
transfer ...ttt e =	0.03	transfer ...ttt e =0.03
aTalHHA: Electrical parameters over	5000	aTalHHA: Electrical parameters over 5000 operating hours:
KPYTH	5.6 V	KPYTH3HA XaTakTepHACTHKA, MA/B =56 transconductance, mA/V =5.6

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
IpeneJibHble	3	IpeneJibHble 3HAYCHHA NONYCTHMBIX Limit Values of Operating
HAKAMA . ooneeeientineane	57	HAKAMA . ooneeeientineane 6,9 517 heater ...ooueeeeniaieannen. 6.9 57
AHOMA ..vvvvvvvernrrarencnes	300	AHOMA ..vvvvvvvernrrarencnes 300 anode oiiiiins 300
CETKH BTOPOH oovnveneee	150	CETKH BTOPOH oovnveneee 150 Bd2 oo 150
T —	100	T — 100 m?l RRTTPEEY 100
LMATie HONOTPERATENA	100	LMATie HONOTPERATENA 100 tial ... 100
TOK XATOHA, MA .. oveeennnns	20 mA	TOK XATOHA, MA .. oveeennnns 20 Cathode current, mA 20
PacceHBaeMad aHOQOM	3.6	PacceHBaeMad aHOQOM 3,6 anode e, 3.6
paccenBaeMast ceTkoit BTOpok	0.5	paccenBaeMast ceTkoit BTOpok 0,5 grid2 ... 0.5
ConpoTHBiieue B LA CETKE Tep- Resistance in grid	1 MOhm	ConpoTHBiieue B LA CETKE Tep- Resistance in grid 1, MOhm:
Published electrical value	0.5	1M HKCHpOBAHHOM CMemeruu 0,5 wi iy fixed b1a\$ RRRERRTRTRETRES 0.5
NIpH aBTOMaTHYeCKoM cMemennm	1	NIpH aBTOMaTHYeCKoM cMemennm 1 with automatic .blas 1
Bpems pa	25	Bpems pa3orpesa Karoga, C 25 Cathode warm up time, s 25
Published electrical value	0	35 Ugr=0V k-
Published electrical value	30	2t — T Ugz=200V] 1 30
B ks e sS o e e ;}- —E- — — -E '	4	B ks e sS o e e ;}- —E- — — -E '25V 4 I ZDUV
Published electrical value	400	0 100 200 300 400 Uy, yan AL
Published electrical value	0 V	1 — a"onusle; 2 — CETOYHO-aHOAHBIE (1IO CETKE BTOPOit); U9'7.V -6 4 -2 0
Published electrical value	3	3 — mambonbinas OONYCTHMas MOLIHOCTh, PacceMBae-
Un=	10 V	Un=6,3V, Upz=150 V 1 — aHORHO- CETOUHBIIE; 2 — CeTOqHbIE (10 CeTke BTOPOH)

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Averaged characteristics: Un=	300 uA	Averaged characteristics: Un=63V, Ua=300V
Upn=	300 V	Upn=63V, Up=150V Un=6.3 V, Ua=300V
U ESBENES	4	U ESBENES 4 o] YcpeaHeHHbIE HMITYJTbCHBIE XaPaKTEPHCTHKH:
Published electrical value	1	0,4 b— Ny y \$i00v T 1 — aHonmHBble; 2 — CETOYHO-aHOAHEIE (1O CeTKE BTOPOH)
Published electrical value	2	1 — anode; 2 — grid-anode (for grid 2)
~Lov T Un=	100 V	~Lov T Un=6.3V, Ug=150 V, 7=2 us, f=100 Hz
S — Ugyimp=	5	S — Ugyimp=40 05
Published electrical value	1000	0 200 400 600 600 1000 UgympV
Published electrical value	100 uA	1 — aHoAHkle; 2 — CETOYHO-aHOHBIE (MO CeTKe BTOpOH) Un=6,3V, Ua=300V, =2 us, f=100 Hz
Un=	100 V	Un=6,3V, Ugp=300V, v=2 us, f=100 Hz
Averaged pulse characteristics: Un=	100 V	Averaged pulse characteristics: Un=6.3V, Ua=300 V, 7=2 us, f=100 Hz
Published electrical value	1	1 i YeHHe):
Published electrical value	2	1 — aHOAHBIE; 2 — CETOYHO-AHOHBIE
Published electrical value	0	. 8""\‘ AT L 0V s0v_] Averaged pulse characteristics {(when connected as triode):
T L L [v /	2 V	T L L [v /40v_] 1 — anode; 2 — grid-anode
Published electrical value	600 V	0 100 200 300 400 500 600 Ugimp,V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	3	1 — anode; 2 — grid-anode (for grid 2); 3 — maximum Averaged characteristics:
permissible anode dissipation	2	permissible anode dissipation 1 — anode-grid; 2 — grid (for grid 2)



198X Shuguang

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

198X SHUGUANG

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	600 mA	Nominal

TUBE TINKER

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