

ELECTRONIC TUBE REFERENCE

12Z1L

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Russian universal short-characteristic pentode designed for voltage and power amplification and high-frequency oscillation to about 200 MHz. Manufacturer documentation specifies a 2,000-hour service-life guarantee.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	12.6 V / 75 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.00165 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	225 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.7 W
MAXIMUM CATHODE CURRENT	11 mA
English-primary bilingual extraction; published electrical table values retained in parameters.	

The 12)K1JI universal pentode with a short pacrukoit 12)K1J1 npegnasnavyed s yCHUJIeHUd Ha-characteristic is designed for amplification of volt- OPAXKEHHS] ¥ MOIMHOCTH, FeHepUPOBAHUS KoJebaHuil age and power and for generation of high-ire- BBICOKOH yacToThl (go 200 MHz).

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 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol go	200 MHz	BBICOKOH yacToThl (go 200 MHz). quency oscillation (up to 200 MHz).
Source symbol to	200 MHz	BBICOKOH yacToThl (go 200 MHz). quency oscillation (up to 200 MHz).
Service life	2000 h	TFapanrupoBannas moarosewHocts 2000 gacos. Service life guarantee: 2000 hr.
Source symbol U,	126 V	U, 126V Uy 0 P,) >05W
Published electrical parameter	>05 W	U, 126V Uy 0 P,) >05W
Source symbol I,	75+15 mA	I, 75+15mA I, 235+095mA S 165045 mA/V
Source symbol I,	235+095 mA	I, 75+15mA I, 235+095mA S 165045 mA/V
Source symbol S	165045 mA/V	I, 75+15mA I, 235+095mA S 165045 mA/V
Source symbol E,	150 V	E, 150V I,, <100pA R, 0,8 MQ
Source symbol I,,	<100 pA	E, 150V I,, <100pA R, 0,8 MQ
Source symbol R,	0.8 MΩ	E, 150V I,, <100pA R, 0,8 MQ
Source symbol Ego	75 V	Ego 75V I, 055035 mA Rg,? 45k
Source symbol I,	55035 mA	Ego 75V I, 055035 mA Rg,? 45k
Source symbol Uy	21 V	Uy 21V
Published electrical parameter	250 V	H Y IIIPH U~ U, =250 V, Uy _ oy =28 V, R, =500 2, R, =35 k@, Ry =20 k2.
Published electrical parameter	28 V	H Y IIIPH U~ U, =250 V, Uy _ oy =28 V, R, =500 2, R, =35 k@, Ry =20 k2.
Published electrical parameter	2 mA	) 2?" I, =2 mA.
Published electrical parameter	3 pF	Cgix 3.75%03 pF Cgla < 0,007 pF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol Cgla	<0.007 pF	Cgix 3.75%03 pF Cgla < 0,007 pF
Source symbol C.	40+035 pF	C. 40+035 pF Cak
Published electrical parameter	0.007 pF	0,007 pF
Source symbol U,	146 V	U, 146V 108V P, 2W
Source symbol V	108 V	U, 146V 108V P, 2W
Source symbol P,	2 W	U, 146V 108V P, 2W
Source symbol U,	250 V	U, 250 V Pg2 0,7 W
Source symbol Pg2	0.7 W	U, 250 V Pg2 0,7 W
Source symbol U,	300 V	U, 300V I 11 mA
Source symbol I	11 mA	U, 300V I 11 mA
Source symbol Ug2	225 V	Ug2 225 V U 100V
Source symbol U	100 V	Ug2 225 V U 100V
Source symbol y	300 V	Ug2 1y 300V
Published electrical parameter	725 V	"725V
Published electrical parameter	4 V	—4v
Published electrical parameter	200 µA	g 50 100 150 200 Ua ¥ Upt, ¥
Published electrical parameter	10 V	U,=10V - Uy =10V
Published electrical parameter	75 V	Ugp=75V — = =1y U,=150V
Published electrical parameter	150 V	Ugp=75V — = =1y U,=150V
Source symbol ly	7 A	ly7 AT ¥ }
Source symbol L	5 V	AN Upr OV~ GIVLIY ~L5V2K -200-3V L35V
Source symbol L5V2K	-200-3 V	AN Upr OV~ GIVLIY ~L5V2K -200-3V L35V
Source symbol L	35 V	AN Upr OV~ GIVLIY ~L5V2K -200-3V L35V
Published electrical parameter	4 W	N S v e 7 4w av4h
Source symbol av	4 h	N S v e 7 4w av4h

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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