

Russian high-voltage heater-cathode diode designed for television horizontal-deflection damping service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 950 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	8 W
PEAK INVERSE VOLTAGE	1600 V
NOMINAL OUTPUT CURRENT	190 mA
PEAK FORWARD CURRENT	900 mA
Representative section row from the complete filename-matched Russian datasheet content only; neighboring-tube fragments excluded.	

High-voltage heater-cathode diode intended for television horizontal-deflection damping 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
Heater voltage	6.3 V	Hanpsokewwe Haxana, B 6,3 Heater voltage, V 6.3
Heater voltage	6.3 V	Hanpsokewwe Haxana, B 6,3 Heater voltage, V 6.3 Tox, MA: Current, mA:
Heater voltage	150 V	 6,3 Heater voltage, V 6.3 Tox, MA: Current, mA: HAKAMA o ettt et tee e iae e e s 950+ 150 heater l 950 £150
Published electrical data	950; 150; 950; 150	HAKAMA o ettt et tee e iae e e s 950+ 150 heater l 950 £150
Rectified current	=120 mA	BeHTHABHAS MPOYHOCTS: Rectifier strength: HanpsXeHHe aHOAHoro TpaHcpopmaropa, B »dd. 650 anode transformer voltage, V (rms.) 650 BBIMPAMIICHHBIA TOK, MA =120 rectified current, MA ooeineeii... =1
Rectified current	5 mA	HanpsXeHHe aHOAHoro TpaHcpopmaropa, B »dd. 650 anode transformer voltage, V (rms.) 650 BBIMPAMIICHHBIA TOK, MA =120 rectified current, MA ooeineeii... =120 COMpPOTHBIIEHHE HATPY3KH, KOM
Rectified current	4 mA	BBIMPAMIICHHBIA TOK, MA =120 rectified current, MA ooeineeii... =120 COMpPOTHBIIEHHE HATPY3KH, KOM 5 load resistance, KOhm cooieine... 5 eMKOCTb GuIBTpa, MKP 4 filter c
Published electrical data	500	DnekTpHyeckue napamerpel B Teyenue 500 u akcmy-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	500	aTauMn: Electrical parameters over 500 operating hours:

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transformer secondary voltage	650 V	BeHTHABHAS MPOYHOCTS: Rectifier strength: HanpsXeHHe aHOAHOrO TpaHcpopmaropa, B »dd. 650 anode transformer voltage, V (rms.) 650
Load resistance	4 kOhm	COMpPOTHBIIEHHE HATPY3KH, KOM 5 load resistance, KOhm cooieine... 5 eMKOCTb GuIBTpa, MKP 4 filter capacitance, pF 4
Filter capacitance	500 uF	eMKOCTb GuIBTpa, MKP 4 filter capacitance, pF 4 DnekTpHyeckue napamerpel B Teyenue 500 u akcmu-
Published electrical data	3	IipenenbHble 3HAYEHHA JOMYCTHMBIX Limit Values of Operating
Heater voltage	5.7 V	Makcumym MuHumMym Maximum Minimum Hanpsikesue Hakama, B 6,9 5,7 Heater voltage, V 6.9 5.7
Heater voltage	5.7 V	Hanpsikesue Hakama, B 6,9 5,7 Heater voltage, V 6.9 5.7
Heater voltage	1600 V	Hanpsikesue Hakama, B 6,9 5,7 Heater voltage, V 6.9 5.7 WL B oo T Lo Peak reverse voliage, V 1600
Peak inverse voltage	1600 V	WL B oo T Lo Peak reverse voliage, V 1600 A a o0paTHOrO Hanpsxe-
Peak inverse voltage	1600 V	WL B oo T Lo Peak reverse voliage, V 1600 A a o0paTHOrO Hanpsxe-
Plate current	900 mA	A a o0paTHOrO Hanpsxe- AMOAXTYAA TOKA aHO0a, MA 900 Peak anode current, mA 900
Plate current	900 mA	AMOAXTYAA TOKA aHO0a, MA 900 Peak anode current, mA 900 Bpocok Toka aHoza (mpu BKIH0Ye- oo
Plate current	1.5 mA	AMOAXTYAA TOKA aHO0a, MA 900 Peak anode current, mA 900 Bpocok Toka aHoza (mpu BKIH0Ye- oo pOcoK (npy Briod Anode current surge on switching, A 1.5

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	1.5 mA	Bpocok Toka aHoza (mpu BKIH0Ye- oo pOcoK (npy Briod Anode current surge on switching, A 1.5 HHA), A ..ot 1,5
Plate current	120 mA	pOcoK (npy Briod Anode current surge on switching, A 1.5 HHA), A ..ot 1,5 BoInpsMIICHHBIR TOK, MA 120 Rectified current, mA 120
Rectified current	120 mA	HHA), A ..ot 1,5 BoInpsMIICHHBIR TOK, MA 120 Rectified current, mA 120 MouIHOCTS, acceuBaeMasl aHo- T
Rectified current	8 mA	BoInpsMIICHHBIR TOK, MA 120 Rectified current, mA 120 MouIHOCTS, acceuBaeMasl aHo- T « p Power dissipation at anode, W 8
Plate dissipation	8 W	MouIHOCTS, acceuBaeMasl aHo- T « p Power dissipation at anode, W 8 moM, BT 8
Plate dissipation	200 W	« p Power dissipation at anode, W 8 moM, BT 8 Temneparypa 6annona, °C 200 Bulb temperature, °C 200
Bulb temperature	200 C	moM, BT 8 Temneparypa 6annona, °C 200 Bulb temperature, °C 200
Bulb temperature	200 C	Temneparypa 6annona, °C 200 Bulb temperature, °C 200
Published electrical data	7	Averaged anode characteristics 7 !



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	Published heater operating voltage

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current nominal	950 mA	Nominal or midpoint of published heater-current tolerance
Plate current at 90 V	70 mA	Published
Service life	500 h	Minimum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	1600 V	Published limit
Rectified current limit	190 mA	Average
Peak plate current	900 mA	Published limit
Plate dissipation	8 W	Published limit

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and their source documents.

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