



ELECTRONIC TUBE REFERENCE

6C19P

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Russian high-voltage damping diode designed for television deflection service, with heater-cathode construction suited to sweep-circuit operation.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Rectifier	
PLATE RESISTANCE	1234 Ω
MAXIMUM PLATE VOLTAGE	6 V
NOMINAL OUTPUT CURRENT	120 mA
PEAK FORWARD CURRENT	450 mA
<i>English-primary promoted values; additional published electrical values retained in parameter table.</i>	

High-voltage damping diode for television deflection 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	DJreKTpH4YeCKHe NapaMeTphbl Electrical Parameters Hanpsxenne Rakana, B 6,3 Heater voltage, V i 6.3
Heater voltage	6.3 V	DJreKTpH4YeCKHe NapaMeTphbl Electrical Parameters Hanpsxenne Rakana, B 6,3 Heater voltage, V i 6.3 Tok, A: Current, A:
Heater voltage	0.1 V	Hanpsxenne Rakana, B 6,3 Heater voltage, V i 6.3 Tok, A: Current, A: HAKAMA ... ittt i 1,1f0,1 R 1.1+0.1
Plate voltage	20 V	Tok, A: Current, A: HAKAMA ... ittt i 1,1f0,1 R 1.1+0.1 aHonma (IpH HaupsbkeHuH aHoga 20 B) =175-1073 anode, at anode voltage 20V
Plate voltage	3 V	HAKAMA ... ittt i 1,1f0,1 R 1.1+0.1 aHonma (IpH HaupsbkeHuH aHoga 20 B) =175-1073 anode, at anode voltage 20V =175-10-3
Plate voltage	3 V	aHonma (IpH HaupsbkeHuH aHoga 20 B) =175-1073 anode, at anode voltage 20V =175-10-3 OneKTpHYECKas MPOYHOCTh:
Plate voltage	4.5 V	OneKTpHYECKas MPOYHOCTh: 0o6paTHOe HampsXKeHHe aHOAA B UMIysbce, KB ... 4,5 Electrical strength: Hanps>XEHHOCTh KaToA — MOOOrpeBaTe/lb B HM- reverse anode voltage (pulse), kV
Plate voltage	4.5 V	0o6paTHOe HampsXKeHHe aHOAA B UMIysbce, KB ... 4,5 Electrical strength: Hanps>XEHHOCTh KaToA — MOOOrpeBaTe/lb B HM- reverse anode voltage (pulse), kV 4.5

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	4.5 V	Hanps>XEHHOCTh KaToA — MOOOrpeBaTe/lb B HM- reverse anode voltage (pulse), kV 4.5 oynbee, KB .. 4,5 cathode-to-heater pulse voltage, kV 4.5
Rectified current	12610 mA	 4.5 oynbee, KB .. 4,5 cathode-to-heater pulse voltage, kV 4.5 BBIIPAMJICHHBIA TOK (CpefiHee 3HayeHue), MA 126110 rectified current (average value), mA 12610
Rectified current	50 mA	oynbee, KB .. 4,5 cathode-to-heater pulse voltage, kV 4.5 BBIIPAMJICHHBIA TOK (CpefiHee 3HayeHue), MA 126110 rectified current (average value), mA 12610 TOK aHOJA B HMIYJlbCE, MA 450+ 50
Rectified current	50 mA	BBIIPAMJICHHBIA TOK (CpefiHee 3HayeHue), MA 126110 rectified current (average value), mA 12610 TOK aHOJA B HMIYJlbCE, MA 450+ 50 anode pulse current, mA 450+50
Line scanning frequency	4 kHz	TOK aHOJA B HMIYJlbCE, MA 450+ 50 anode pulse current, mA 450+50 4aCTOTa CTPO4HOMH pa3mepTku, K[..... 16+4 line scanning frequency, kHz
Line scanning frequency	164 kHz	 450+50 4aCTOTa CTPO4HOMH pa3mepTku, K[..... 16+4 line scanning frequency, kHz 164
Line scanning frequency	164 kHz	4aCTOTa CTPO4HOMH pa3mepTku, K[..... 16+4 line scanning frequency, kHz 164 IPOAOMKHTENBHOCrD HMITYlbCa OOpATHOpO HAllpa- duration of reverse voltage pulse and cathode-to-
Heater voltage	164 V	 164 IPOAOMKHTENBHOCrD HMITYlbCa OOpATHOpO HAllpa- duration of reverse voltage pulse and cathode-to- KEHHA ¥ HAMIPSKEHASN MEXAY KaTOZOM H MOJOppe- heater voltage, us
Heater voltage	124 V	IPOAOMKHTENBHOCrD HMITYlbCa OOpATHOpO HAllpa- duration of reverse voltage pulse and cathode-to- KEHHA ¥ HAMIPSKEHASN MEXAY KaTOZOM H MOJOppe- heater voltage, us 124
Heater voltage	124 V	KEHHA ¥ HAMIPSKEHASN MEXAY KaTOZOM H MOJOppe- heater voltage, us 124

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1234 ohm	 124 BATCIEM, MKC ..o 1234 Internal resistance, Ohm
Plate resistance	=100 ohm	BATCIEM, MKC ..o 1234 Internal resistance, Ohm =100
Plate resistance	=100 ohm	BATCIEM, MKC ..o 1234 Internal resistance, Ohm =100 BayTpeHHee conpoTiBneHue, OM =100
Published electrical data	=100	BayTpeHHee conpoTiBneHue, OM =100
Published electrical data	=8	AHOA —KATOD oottt ine e eeie e eneneens =8 anode-to-cathode
Published electrical data	=3.5; =35	KaTON — HOOOTPEBATENb vouun... =3,5 cathode-to-heater =35
Published electrical data	=50; <50	BpeMs TOTOBHOCTH, € ... vvtvine it iiee e =50 WAarm up period, \$ ot <50
Published electrical data	3000; 4	OnexTpubeckue napamMeTpsi B Tevedune 3000 4 sxcruty-
Plate current	=140 mA	OnexTpubeckue napamMeTpsi B Tevedune 3000 4 sxcruty- aTalMA: Electrical parameters over 3000 operating hours: TOK @HOOA, MA iiieanannnn. =140 anode current, mA o =140
Plate current	=140 mA	aTalMA: Electrical parameters over 3000 operating hours: TOK @HOOA, MA iiieanannnn. =140 anode current, mA o =140
Plate current	=140 mA	TOK @HOOA, MA iiieanannnn. =140 anode current, mA o =140

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	3	Ilpenesbubble 3HAYEHHA JONYCTHMBIX Limit Values of Operating
Published electrical data	1; 6.9; 5.7; 6.9; 57	b-1 φ: O 6,9 5,7 heater 6.9 57
Published electrical data	100; 100	LMae TOOOrpeBaTens 100 tial ... 100
Published electrical data	750; 750	HHane noaorpeBaTeNs 750 tial ... 750
Published electrical data	4.5; 103; 4.5; 103	TEJEM B HMITYIILCE 4,5 103 (pulse) 4.5.103

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	6 V	TEJEM B HMITYIILCE 4,5 103 (pulse) 4.5.103 AMILTHTY a2 06paTHOrO HANpAKEHUS aHOAA B MMIYJlbCE (IPH IIPOMOIHKH- Peak reverse .anode voltage', (pulse),
Plate voltage	4.5 V	AMILTHTY a2 06paTHOrO HANpAKEHUS aHOAA B MMIYJlbCE (IPH IIPOMOIHKH- Peak reverse .anode voltage', (pulse), TeNLHOCTH HMITYMbea =< 12 Mxc), KB 4,5 at pulse duration at most 12 us, kV 4.5
Plate voltage	4.5 V	aHOAA B MMIYJlbCE (IPH IIPOMOIHKH- Peak reverse .anode voltage', (pulse), TeNLHOCTH HMITYMbea =< 12 Mxc), KB 4,5 at pulse duration at most 12 us, kV 4.5
Plate current	450 mA	TeNLHOCTH HMITYMbea =< 12 Mxc), KB 4,5 at pulse duration at most 12 us, kV 4.5 AMIUTHTYA TOKa aHOAA, MA ... 450 Peak anode current, mA 450
Plate current	3 mA	AMIUTHTYA TOKa aHOAA, MA ... 450 Peak anode current, mA 450 BomipsMileHHBIH TOK (CpenoHee 3Ha-
Plate current	120 mA	AMIUTHTYA TOKa aHOAA, MA ... 450 Peak anode current, mA 450 BomipsMileHHBIH TOK (CpenoHee 3Ha- HEHHE), MA .t 120 Rectified current (average value), mA 120
Rectified current	120 mA	BomipsMileHHBIH TOK (CpenoHee 3Ha- HEHHE), MA .t 120 Rectified current (average value), mA 120 YacTtoTra CIENOB AHHS MMITY]b- i
Rectified current	12 mA	HEHHE), MA .t 120 Rectified current (average value), mA 120 YacTtoTra CIENOB AHHS MMITY]b- i Pulse repetition frequency, kHz 20 12
Published electrical data	20; 12	Pulse repetition frequency, kHz 20 12
Bulb temperature	180 C	Pulse repetition frequency, kHz 20 12 €8, KTIL e e e 20 12 pe aueney. Temnepatypa Gamiona, °C 180 Bulb temperature, °C 180
Bulb temperature	180 C	€8, KTIL e e e 20 12 pe aueney. Temnepatypa Gamiona, °C 180 Bulb temperature, °C 180
Bulb temperature	180 C	Temnepatypa Gamiona, °C 180 Bulb temperature, °C 180 In, mA



TUBE TINKER

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