



ELECTRONIC TUBE REFERENCE

3C18P

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Russian high-voltage kenotron designed specifically to convert line-scan flyback pulses to DC in television receivers, generating the elevated supply used for CRT accelerating voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	0
NOMINAL HEATER	3.15 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PLATE RESISTANCE	15000 Ω
PEAK INVERSE VOLTAGE	25000 V
NOMINAL OUTPUT CURRENT	1.5 mA
PEAK FORWARD CURRENT	15 mA
WARM-UP TIME	15 s
<i>Electrical values extracted only from the filename-designated tube block; page-edge fragments excluded.</i>	

The 3C18P is a high-voltage kenotron for converting line-scan flyback pulses to DC in television receivers.



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
Anode voltage	100 V	Published test point
Anode current	8 mA	Published test point
Output capacitance	1.5 pF	Published value
Warm-up time	15 s	Published value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak reverse anode voltage	25 kV	Pulse
Peak anode current	15 mA	Pulse
Rectified current	1.5 mA	Average
Pulse repetition frequency	10–300 kHz	Published range



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
Rectified current	1.1 mA	Выпрямленный ток (при $U_{оср}=35$ кВ, $f=16$ кГц) и 1,1 мА
Anode-cathode capacitance	1.5--0.4 pF	Емкость между анодом и катодом и 1,5-0,4 пФ
Service life	>750 h	Наработка , 2>750 ч
Plate current	>8.6 mA	ток анода (при $U_a=120$ В) >8,6 мА
Rectified current	11 mA	Выпрямленный ток (среднее значение) K_v 11 мА
Plate current	80 mA	Ток анода в импульсе , 80 мА
Plate current	28 mA	Ток анода . . , 28 мА
Rectified current	1.5 mA	Выпрямленный ток (при $U_{обр}=25$ кВ $i=16$ кГц) , 1,5 мА
Plate resistance	<15 kΩ	Внутреннее сопротивление . . < 15 кОм
Service life	>1250 h	Наработка . , . г ж в вакууме, > 1250 ч
Plate current	16 mA	Ток анода в импульсе . . , . не 16 мА
Plate current	>4.5 mA	Ток анода . . . МН >4,5 мА
Capacitance	5 pF	Емкость между катодом и анодом , <?,5 пФ
Service life	>1500 h	Наработка . . . К, 2>1500 ч

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Reverse voltage	85 kV	Обратное напряжение . . . з ее , 85 кВ
Reverse voltage	95 kV	Обратное напряжение . . . Ф.а 95 кВ

TUBE TINKER

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