



ELECTRONIC TUBE REFERENCE

1C21P

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Russian high-voltage rectifier for television line-scanning circuits, rectifying horizontal flyback pulses to generate the CRT accelerating-voltage supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	1.4 V / 690 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	25000 V
NOMINAL OUTPUT CURRENT	0.6 mA
PEAK FORWARD CURRENT	40 mA
WARM-UP TIME	15 s
<i>Values promoted where clearly identifiable from Russian source.</i>	

The 1C21P is an indirectly heated high-voltage kenotron for television line-scanning circuits.



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
Anode-cathode capacitance	3 pF	Published value
Rectified voltage	18 kV	Published value
Rectified current	0.6 mA	Average
Oscillator frequency	164 kHz	Published test condition
Warm-up time	15 s	Published value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak reverse voltage	25 kV	Peak



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	23.5 mA	Published Russian-source value; OCR-normalized.
Rectified output current	6 kV	Published Russian-source value; OCR-normalized.
Service life	21500 h	Published Russian-source value; OCR-normalized.
Rectified output current	135 µA	Published Russian-source value; OCR-normalized.
Peak inverse voltage	10 kV	Published Russian-source value; OCR-normalized.
Rectified output current	300 µA	Published Russian-source value; OCR-normalized.
Plate current	12 mA	Published Russian-source value; OCR-normalized.
Rectified output current	18 kV	Published Russian-source value; OCR-normalized.
Service life	2000 h	Published Russian-source value; OCR-normalized.
Peak inverse voltage	27 kV	Published Russian-source value; OCR-normalized.
Rectified output current	800 V	Published Russian-source value; OCR-normalized.
Plate current	40 mA	Published Russian-source value; OCR-normalized.
Plate current	17.5 mA	Published Russian-source value; OCR-normalized.
Service life	21500	Published Russian-source value; OCR-normalized.
Plate current	20 mA	Published Russian-source value; OCR-normalized.
Rectified output current	25.4	Published Russian-source value; OCR-normalized.
Peak inverse voltage	12.5 kV	Published Russian-source value; OCR-normalized.
Rectified output current	7.5 V	Published Russian-source value; OCR-normalized.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	45 mA	Published Russian-source value; OCR-normalized.
Heater voltage	1.1 V	Nominal/published heater value.
Heater current	30 mA	Nominal/published heater value.

TUBE TINKER

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