ELECTRONIC TUBE REFERENCE

5C12P

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Russian indirectly heated high-voltage kenotron for half-wave AC rectification in stationary and mobile equipment, providing approximately 5 kV inverse-voltage capability.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	4.5 V / 870 mA	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Rectifier

MAXIMUM PLATE DISSIPATION	5 W
PEAK INVERSE VOLTAGE	5000 V
NOMINAL OUTPUT CURRENT	50 mA
PEAK FORWARD CURRENT	350 mA

Electrical values extracted only from the filename-designated tube block; page-edge fragments excluded.

The 5C12P is an indirectly heated high-voltage kenotron for rectifying AC in stationary and mobile equipment.

SOURCE OPERATING CONDITIONS

195X Russian

SOURCE PDF

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	**40 V**	Published test point
Anode current	**50 mA**	Published test point

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transformer secondary voltage	**2 kV**	AC
Load resistance	**43.5 kOhm**	Rectifier test
Filter capacitance	**1 uF**	Rectifier test
Peak reverse voltage	**5 kV**	Published limit
Peak anode current	**350 mA**	Published limit
Peak anode current on switching	**2 A**	Published limit
Rectified current	**50 mA**	Published limit
Anode dissipation	**5 W**	Published limit

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1981 Russian Tubes Katsnelson and Larionov

SOURCE PDF

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**
Plate current	**250 mA**	Ток анода . 2 . . — 250 мА
Rectified current	**>50 mA**	Выпрямленный ток (при П...—? кВ иобр 5 кВ, — >50 мА
Service life	**2500 h**	Наработка . . ке 2500 ч
Rectified current	**45 mA**	выпрямленный ток , ..., 45 мА
Heater voltage	**4.5–5.5 V**	Напряжение накала . . . . ,. , 4,5—5,5 В
Rectified current	**50 mA**	Выпрямленный ток (среднее значение) жж . . 50 мА
Plate current	**350 mA**	Ток анода (амплитудное значение). . . . . — 350 мА
Plate current	**225 mA**	Ток анода (при (,=75 В): к о.н. . 225 мА

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Reverse voltage	**5 Кв**	Обратное напряжение . . . ке з,. 5Кв

Tube Tinker

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker