



ELECTRONIC TUBE REFERENCE

5C3S

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Russian two-anode directly heated kenotron for general-purpose AC rectification. It provides approximately 250 mA DC output with high peak inverse-voltage capability for conventional power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	4.5 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1700 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	750 mA
<i>Electrical values extracted only from the filename-designated tube block; page-edge fragments excluded.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1700 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	750 mA
<i>Second physical rectifier section; promoted electrical properties populated from identical section.</i>	

The 5C3S is a glass two-anode directly heated kenotron for general-purpose AC rectification.



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 current	225 mA	Minimum; each anode separately at 75 V
Rectified current	230 mA	Minimum; 2 x 250 V AC, 2000 Ohm load, 4 uF capacitor
Rectified current after 500 h	230 mA	Minimum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Inverse peak voltage	1700 V	Published limit
Peak anode current	750 mA	Published limit
Rectified current	250 mA	Published limit



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
Plate current	225 mA	Ток анода (при $U_a=75$ В): к о.н. . 225 мА

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4.5–5.5 V	Напряжение накала , 4,5–5,5 В
Plate current	750 mA	Ток анода (амплитудное значение). . . . , 750 мА
Plate current	300 mA	Ток анода (при Ш=50 Б) й , , — 300 мА
Rectified current	47 kΩ	Выпрямленный ток (при И,=500 В Кн=47 кОм, С=
Service life	>2000 h	Наработка МАЕ о ж о я а в е е ч в в в е > 2000 ч
Heater voltage	4.5 в	Напряжение накала. , , ... Ёа 4,5 в
Rectified current	62 mA	Выпрямленный ток (среднее значение) е ве в е о 62 мА
Plate current	8375 mA	Ток анода (амплитудное значение) , , 8375 мА

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Reverse voltage	1700 V	Обратное напряжение . . о., 1700 В
Reverse voltage	1.35 KB	Обратное напряжение . , , в оч е в о о е 1,35 KB

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 2 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	225 mA	Ток анода (при (,=75 В): к о.н. . 225 мА
Heater voltage	4.5–5.5 V	Напряжение накала , 4,5–5,5 В
Plate current	750 mA	Ток анода (амплитудное значение). . . . , 750 мА
Plate current	300 mA	Ток анода (при Ш=50 Б) й , , — 300 мА
Service life	>2000 h	Наработка МАЕ о ж о я а в е е ч в в в е > 2000 ч

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Reverse voltage	1700 V	Обратное напряжение . . о., 1700 В



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