



ELECTRONIC TUBE REFERENCE

6S5DI

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Soviet pulse triode designed to generate super-high-frequency oscillations under pulsed conditions at wavelengths around 35–40 cm. Its ratings and construction target specialized pulsed UHF oscillator service rather than general power amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	2.5 A
<i>Promoted fields are taken from the published electrical-characteristics and maximum-permissible-ratings tables in the approved bilingual source; repeated identical sections are represented once where applicable.</i>	

The 6C51-U pulse triode is designed for generation of superhigh frequency oscillation under pulsed conditions over a wavelength band of 35 to 35–40 cm.



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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater condition.
Heater current	800 mA	Published heater current.
Transconductance	10000 μ S	Published characteristic; normalized to μ S.
Service life	200 h	Published service-life guarantee.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	1000 V	Published limiting/specification value.
Maximum plate dissipation	25 W	Published limiting value.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1970 Russian Tubes Mashpriborintorg

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1970 RUSSIAN TUBES MASHPRIBORINTORG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillation power	2 kW	Pulse Wavelength=35-40cm
Pulse plate voltage	3.7 kV	Pulse
Pulse plate current	2.5 A	Pulse
Maximum frequency	280 MHz	—

TUBE TINKER

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