



ELECTRONIC TUBE REFERENCE

6D13D

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

DIODE

Russian subminiature metal-glass UHF diode designed for detection and rectification in electronic voltmeters and centimeter-wave radio circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 210 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Diode	
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	0.2 mA
PEAK INVERSE VOLTAGE	450 V
MAXIMUM HEATER-CATHODE VOLTAGE	150 V
Representative section row from the complete filename-matched Russian datasheet content only; neighboring-tube fragments excluded.	

Subminiature metal-glass UHF diode for detection and rectification in electronic voltmeters and other centimeter-wave radio circuits.

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 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	Published heater operating voltage
Heater current nominal	210 mA	Nominal or midpoint of published heater-current tolerance
Initial plate current	0.45 uA	Maximum, plate 0 V with 3 MOhm
Rectified current	200 uA	150 V, 700 kOhm, 8 uF
Reverse current	0.05 uA	Maximum at -300 V
Internal resistance	700 ohm	Maximum
Sensitivity at 2000 MHz	0.3 A/W	Minimum
Resonant wavelength	7.5 cm	Maximum
Service life	2000 h	Minimum

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	1 pF	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	450 V	Published

TUBE TINKER

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