

ELECTRONIC TUBE REFERENCE

6D22S

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated power diode for half-wave B-plus rectification in high-quality audio amplifiers. Its high inverse-voltage capability and substantial current suit demanding amplifier power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.9 A	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	6000 V
NOMINAL OUTPUT CURRENT	220 mA
PEAK FORWARD CURRENT	550 mA
MAXIMUM HEATER-CATHODE VOLTAGE	600 V
WARM-UP TIME	30 s
Representative section row from the complete filename-matched Russian datasheet content only; neighboring-tube fragments excluded.	

Power diode for use as a half-wave B+ rectifier in high-quality audio amplifiers.

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
Heater voltage nominal	6.3 V	Published heater operating voltage
Heater current nominal	1.9 A	Nominal or midpoint of published heater-current tolerance
Pulse plate current at 50 V	1 A	Published
Service life	1500 h	Minimum

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-plate capacitance	12 pF	Nominal
Cathode-heater capacitance	5 pF	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rectified current limit	220 mA	Average
Peak plate current	550 mA	Published
Plate dissipation	5 W	Published
Peak inverse voltage	6000 V	Pulse

199X Svetlana

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

199X SVETLANA
Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
tions and some ratings. The 6D22S features very slow warmup (	30 seconds	SourcePage1-2
Anode to cathode	12 pF	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse anode voltage	6000 V	SourcePage1-2
Peak anode current	1 A	SourcePage1-2
Anode current, continuous	300 mA	SourcePage1-2
Anode dissipation	11 W	SourcePage1-2