

ELECTRONIC TUBE REFERENCE

K81A

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
DIODE

Directly heated noise diode designed as a calibrated standard noise source for metric-wave measurements, with recommended operation to approximately 300 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	9
NOMINAL HEATER	1.85 V / 2.5 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	20 mA
Published ratings and characteristics promoted semantically from the approved Philips source.	

Directly heated noise diode intended as a calibrated standard noise source for metric-wave measurements.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Maximum Plate Dissipation	3 W	—
Maximum Cathode Current	20 mA	—
Filament Voltage	1.85 V	—
Filament Current	2.5 A	—
Anode Voltage	100 V	—
Anode Current	15 mA	—
Maximum Filament Voltage	2 V	—
Maximum Anode Voltage	150 V	—
Maximum Anode Current	20 mA	—
Maximum Anode Dissipation	3 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-filament capacitance	2.2 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode voltage	100 V	—
Typical anode current	15 mA	—
Maximum recommended frequency	300 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum filament voltage	2 V	—
Maximum anode voltage	150 V	—
Maximum anode current	20 mA	—
Maximum anode dissipation	3 W	—

TUBE TINKER

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

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