



ELECTRONIC TUBE REFERENCE

K51A

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

DIODE

Rare-gas-filled microwave noise diode designed as a calibrated noise source for measurements in the 10 cm wavelength band.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 3.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Diode	
MAXIMUM PLATE VOLTAGE	140 V
MAXIMUM CATHODE CURRENT	300 mA
<i>Gas-filled microwave noise diode; noise-source data retained as parameters.</i>	

Rare-gas-filled microwave noise diode for the 10 cm wave band. Published ratings, characteristics, operating data, capacitances, microwave/noise data, or gauge-head data were retained according to the physical device and mapped only to compatible locked-schema fields.

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

Section 1 · Diode

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Rare gas	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode voltage	140 V	—
Typical anode current	200 mA	—
Noise temperature	16600 K	—
Noise level above 290 K	17.58 dB	—
Heating time minimum	15 sec	—
Ignition voltage	6000 V	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode current	300 mA	—
Minimum anode current	100 mA	—
Ambient temperature minimum	-55 degC	—
Ambient temperature maximum	75 degC	—

TUBE TINKER

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and their source documents.

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