



ELECTRONIC TUBE REFERENCE

EA50

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

DIODE

Miniature single thermionic diode for general detector and low-level rectifier service, using a conventional 6.3 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	3
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	50 V
MAXIMUM CATHODE CURRENT	5 mA
PEAK INVERSE VOLTAGE	560 V
NOMINAL OUTPUT CURRENT	5 A
PEAK FORWARD CURRENT	30 A
MAXIMUM HEATER-CATHODE VOLTAGE	100 V
<i>Promoted from clearly identified published ratings/characteristics; additional operating points, capacitances, detector data, microwave data, and special-quality limits are retained in TUBE_SECTION_PARAMETER.</i>	

Miniature single diode for general detector or rectifier service with a 6.3 V heater.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Diode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Cathode Capacitance	2.1 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Diode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-to-cathode capacitance	2.1 pF	Section1

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	560 V	Section1
DC diode current maximum	5 mA	Section1
Peak diode current maximum	30 mA	Section1
Heater-to-cathode voltage maximum	100 V	Section1

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Chauffage : indirect par C.A. ou C.C. Ve =	6.3 V	Published datasheet value
I ₃ = max	5 mA	Published datasheet value
I _{dp} = max	30 mA	Published datasheet value
R _{if} = max	20 kΩ	Published datasheet value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
' Capacitance C _{ax} =	2.1 pF	Published datasheet value