



ELECTRONIC TUBE REFERENCE

EAA91

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Low-resistance dual diode designed for FM ratio detectors and related high-frequency detector circuits, with resonance around 700 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE DISSIPATION	0.25 W
MAXIMUM CATHODE CURRENT	10 mA
PEAK INVERSE VOLTAGE	420 V
NOMINAL OUTPUT CURRENT	9 mA
PEAK FORWARD CURRENT	60 mA
MAXIMUM HEATER-CATHODE VOLTAGE	330 V
<i>Representative row for repeated identical sections. Explicit equivalent designation published on E91AA datasheet; record duplicated under alias.</i>	

SECTION2 Diode	
<i>No fixed ratings recorded.</i>	
<i>Physical diode section added during approved section-structure reconciliation.</i>	

Low-resistance dual diode for FM ratio detectors and related detector circuits.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Diode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value



SOURCE OPERATING CONDITIONS

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195X Tesla

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

195X TESLA

Section 1 · Diode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitances	Published	See source sheet for electrode-specific capacitance values



1963 Philips Electron Tubes Handbook V1a

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1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode capacitance with external shielding	3 pF	EachSection
Diode capacitance without external shielding	2.5 pF	EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC transformer voltage maximum	150 V RMS	HalfWave;EachSection
DC output current maximum	9 mA	HalfWave;EachSection
Filter capacitance maximum	8 µF	HalfWave;EachSection
Series resistance minimum	300 Ω	HalfWave;EachSection
Peak inverse voltage maximum	420 V	EachSection
Peak diode current maximum	54 mA	EachSection



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

1963 Siemens

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1963 SIEMENS

Section 1 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward current at 10 V	60 mA	Nominal

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Resonance frequency	700 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak diode current	60 mA	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1969 Tesla Manual of Electronic Tubes

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1969 TESLA MANUAL OF ELECTRONIC TUBES

Section 1 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum output current	9 mA	Per section


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
A.C. supply voltage V_{ir}	150 VRMS	—
D.C. current per system I_p	9 mA	—
Heater voltage V_i	6.3 V	—
Heater current I_t	300 mA	—
Diode voltage, negative peak ' V_{dp} max	—420 V	Maximum
Diode current I_q max	—9 mA	Maximum
Diode current, peak I_{d_p} max	—54 mA	Maximum
Cathode to heater voltage peak (k neg) k_{ap} (k neg) max	—150 V	Maximum
Cathode to heater voltage, peak (k pos) k_{ap} (k pos) max	—330 V	Maximum
D.C. component max	—200 V	Maximum
D.C. current I_p max	—9 mA	Maximum
Cathode to heater voltage, peak (k pos) k_{ap} (k pos) max	—330 V	Maximum
D.C. component max	—200 V	Maximum

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode No.1 to all C_{d1} 3.0	2.5 pF	—
Diode No.2 to all C_{d2} 3.0	2.5 pF	—
Diode No.1 to diode No.2 C_{d1d2} max.0.026 max	—0.068 pF	Maximum
Cathode No.1 to all C_{k1} 3.4	3.4 pF	—
Cathode No.2 to all C_{k2} 3.4	3.4 pF	—



SOURCE DATA APPENDIX

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
alimentation parallèle ou Ve =	6.3 V	Published datasheet value
Ca1 =	3 pF	Published datasheet value
Ca2 =	2.5 pF	Published datasheet value
Cat1d2 <	0.068 pF	Published datasheet value
Cx1 =	3.4 pF	Published datasheet value
Cx2 =	3.4 pF	Published datasheet value
Io =max,	9 mA	Published datasheet value
Ry = min	300 Q	Published datasheet value
Composante C.C, max,	165 V	Published datasheet value
Gleichspannungsanteil max,	200 V	Published datasheet value
teil max	165 V	Published datasheet value

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