

ELECTRONIC TUBE REFERENCE

6JU8A

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

4 SECTIONS

CONSTRUCTION

DIODE-DIODE-DIODE-DIODE

Quadruple diode for color phase detection, noise-immune color-killer circuits, and FM stereo bridge-matrix applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E9-1	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	300 V
NOMINAL OUTPUT CURRENT	9 mA
PEAK FORWARD CURRENT	54 mA
FORWARD VOLTAGE DROP	10 V
Representative row for four identical diode sections.	

SECTION2 Diode	
No fixed ratings recorded.	
Physical diode section added to match documented multi-diode construction.	

SECTION3 Diode

No fixed ratings recorded.

Physical diode section added to match documented multi-diode construction.

SECTION4 Diode

No fixed ratings recorded.

Physical diode section added to match documented multi-diode construction.

Quadruple-diode tube for color phase detection, noise-immune color-killer circuits, and FM stereo bridge matrixing. Explicit heater variant/co-designation of 8JU8A in the approved source.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateCurrentAt10V	60 mA	Representative repeated diode section



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Plate Voltage	10 V	EachSection
Plate Current	60 mA	EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	300 V	EachSection
Peak Plate Current	54 mA	EachSection
DC Output Current	9 mA	EachSection



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Diode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current at 70 V	60 mA	InstantaneousValue

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater-cathode voltage, heater positive	300 V	EachUnit



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Diode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	300 V	EachDiode



1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC)	6.3 V	Published table value column 1
Voltage (AC or DC)	0.6 V	Published table value column 2
Current at heater volts =	6.3 V	Published table value column 1
Current at heater volts =	0.6 V	Published table value column 2
respect to cathode	300 V	Published table value
Plate Current for plate volts =	10 V	Published table value column 1
Plate Current for plate volts =	60 V	Published table value column 2



SOURCE DATA APPENDIX

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage	300 V	Other
Peak Inverse Plate Voltage	300 V	MaximumRating
Peak Plate Current	54 mA	MaximumRating
Average Output Current	9 mA	MaximumRating
Plate Current for plate voltage of	10 V	MaximumRating;PublishedValue1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current for plate voltage of	60 V	MaximumRating;PublishedValue2
Peak Inverse Plate Voltage	300 V	Section1
Nominal Output Current	9 mA	Section1
Peak Forward Current	54 mA	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Unit No.1	1.8 pF	Capacitance
Unit No	2 pF	Capacitance;PublishedValue1
Unit No	2.2 pF	Capacitance;PublishedValue2
Plate of Unit No	2 pF	Capacitance;PublishedValue1
Plate of Unit No	0.62 pF	Capacitance;PublishedValue2
Unit No	3 pF	Capacitance;PublishedValue1
Unit No	1.9 pF	Capacitance;PublishedValue2
Unit No	4 pF	Capacitance;PublishedValue1
Unit No	2.2 pF	Capacitance;PublishedValue2
Plate of Unit No	4 pF	Capacitance;PublishedValue1
Plate of Unit No	0.94 pF	Capacitance;PublishedValue2
Cathode of Unit No.1 to Heater and Internal Shield	1.8 pF	Capacitance
Cathode of Unit No	3 pF	Capacitance;PublishedValue1
Cathode of Unit No	1.9 pF	Capacitance;PublishedValue2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	10 V	Section1

TUBE TINKER

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

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