

ELECTRONIC TUBE REFERENCE

5896

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Subminiature twin diode with separate cathodes for detector, AGC, and low-current rectifier service in industrial and communications equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DJ	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8DJ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2K	B	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – SH	A	SH – Internal Shield	CONNECTED
PIN5 – 1P	A	P – Plate (Anode)	CONNECTED
PIN6 – H	–	H – Heater	CONNECTED
PIN7 – 1K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	460 V
NOMINAL OUTPUT CURRENT	10 mA
PEAK FORWARD CURRENT	60 mA
FORWARD VOLTAGE DROP	4.5 V
MAXIMUM HEATER-CATHODE VOLTAGE	360 V
<i>Representative section for two electrically identical sections.</i>	

SECTION2 Diode	
<i>No fixed ratings recorded.</i>	
<i>Second physical diode section added in approved section-structure reconciliation.</i>	

Subminiature twin diode with separate cathodes for independent operation, suitable for detector, automatic-gain-control and low-current power-rectifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Steady state peak plate current	60 mA	Each plate
Transient peak plate current	350 mA	Each plate



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—
Approximate Detection Frequency	450 MHz	—
Minimum Diode Resonant Frequency	900 MHz	Each section



195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	4.5 V	At18mADC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current maximum per plate	10 mA	FullWave;EachSection
Peak inverse voltage maximum	460 V	FullWave;EachSection
RMS supply voltage per plate	150 V	FullWave;EachSection
Peak current per plate maximum	60 mA	FullWave;EachSection



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Supply Voltage Per Plate	165 V	—
TransientPeakPlateCurrentPerPlate	350 mA	Duration<=0.2s
DC Output Current	18 mA	FullWave;CapacitorInputFilter

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Maximum AC plate-supply voltage per plate RMS	165 V	—
Full-wave DC output current	18 mA	CapacitorInputFilter
Filter input capacitance	8 uF	CapacitorInputFilter
Maximum peak inverse voltage	460 V	—
Nominal DC output current	18 mA	—
Maximum peak forward current	60 mA	—
Maximum heater-cathode voltage	360 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate1 input capacitance	2.5 pF	Section1
Cathode1 input capacitance	3.5 pF	Section1