



ELECTRONIC TUBE REFERENCE

6110

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Rugged subminiature twin-diode rectifier designed for long life at high temperatures and under severe shock and vibration. Its compact indirectly heated construction suits low-current professional power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DJ	BASE PINS	8
NOMINAL HEATER	6.3 V / 150 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 Rectifier	
PEAK INVERSE VOLTAGE	460 V
NOMINAL OUTPUT CURRENT	4.4 mA
PEAK FORWARD CURRENT	26.5 mA
FORWARD VOLTAGE DROP	10 V
MAXIMUM HEATER-CATHODE VOLTAGE	1360 V
<i>Representative row for electrically identical repeated sections.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	460 V
NOMINAL OUTPUT CURRENT	4.4 mA
PEAK FORWARD CURRENT	26.5 mA
FORWARD VOLTAGE DROP	10 V
MAXIMUM HEATER-CATHODE VOLTAGE	1360 V
<i>Values promoted from the supplied Sylvania source where explicitly published.</i>	

The 6110 is an 8-pin subminiature twin-diode rectifier characterized by long life and stable performance and designed for high temperatures and severe mechanical shock and vibration.



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 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	150 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TypicalFullWaveOutputCurrent	8 mA	CapacitorInputFilter



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	150 mA	Published heater/filament rating
Tube voltage drop	10 V	At 15 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	4.4 mA	RectifierService
Peak inverse voltage	460 V	RectifierService
RMS supply voltage per plate	165 V	RectifierService
Peak current per plate	26.5 mA	RectifierService



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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Supply Voltage Per Plate	165 V	—
SteadyStatePeakPlateCurrentPerPlate	26.5 mA	—
TransientPeakPlateCurrentPerPlate	160 mA	—
FilterInputCapacitance	8 uF	FullWave;CapacitorInputFilter



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-plate capacitance maximum unshielded	0.15 pF	WholeTube

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-plate capacitance maximum shielded	0.026 pF	WholeTube
Input capacitance each unit unshielded	1.5 pF	WholeTube
Cathode to all other electrodes each unit	2.6 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC plate supply voltage each unit	165 V	WholeTube
Maximum peak inverse plate voltage	460 V	WholeTube
Maximum steady-state peak plate current each unit	26.5 mA	WholeTube
Maximum transient peak plate current each unit	160 mA	WholeTube
Maximum DC output current each unit	4.4 mA	WholeTube
Maximum heater-cathode voltage	1360 V	WholeTube
AC plate voltage each unit	150 V	FullWave CapacitorInputFilter
Filter input capacitance	8 uF	FullWave CapacitorInputFilter
Effective plate supply impedance	1500 ohm	FullWave CapacitorInputFilter
DC output current	8 mA	FullWave CapacitorInputFilter

TUBE TINKER

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