

ELECTRONIC TUBE REFERENCE

6X5WGT

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Rugged twin-diode full-wave rectifier for reliable power-supply service. Strengthened construction and conventional 6.3 V heater-cathode operation suit demanding professional equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6S	BASE PINS	6
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

6S - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – H	–	H – Heater	CONNECTED
PIN3 – 2P	A	P – Plate (Anode)	CONNECTED
PIN5 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1375 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	230 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Promoted only from clearly identified printed ratings/characteristics; additional operating and limiting values retained in TUBE_SECTION_PARAMETER.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1375 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	230 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Rugged twin-diode full-wave rectifier for power-supply service. Data was extracted from the supplied Tung-Sol source, including published ratings, characteristics, and operating information.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac or dc)	600 mA	Heater Voltage (ac or dc) 0.6 amp. @
Heater Current	450 V	Heater Current 450 volts
Peak Inverse Plate Voltage	210 mA	Peak Inverse Plate Voltage 210 ma.
Peak Plate Current per Plate	70 mA	Peak Plate Current per Plate 70 ma. e A . 0
Min. Total Effective Plate Supply Impedance,	150 Ω	Min. Total Effective Plate Supply Impedance, 150 ohms
DC Voltage at Input to Filter {approx.}	405 V	DC Voltage at Input to Filter {approx.} 405 volts
Regulation 5	35 V	Regulation 5 35 volts
Tube Voltage Drop at	70 mA	Tube Voltage Drop at 70 ma. per plate



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	1250 V	FullWave
Peak current per plate maximum	210 mA	FullWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current maximum	70 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	22 V	FullWave


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
Heater voltage	6.3 V	Nominal
Heater current	600 mA	Nominal
AC plate voltage per plate RMS	325 V	CapacitorInputFilter
DC output current	70 mA	CapacitorInputFilter
AC plate voltage per plate RMS	450 V	ChokeInputFilter
DC output current	70 mA	ChokeInputFilter
Input choke	10 H	ChokeInputFilter
Filter input capacitor	8 uF	CapacitorInputFilter
Effective plate supply impedance each plate	150 ohm	CapacitorInputFilter


SOURCE DATA APPENDIX

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	1375 V	PromotedValue
MAXIMUM HEATER -CATHODE VOLTAGE	3450 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	75 mA	PromotedValue
AVERAGE CHARACTERISTICS – published value 1	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AVERAGE CHARACTERISTICS – published value 2	600 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
LIMITS OF APPLIED CURRENT – published value 1	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
LIMITS OF APPLIED CURRENT – published value 2	0.6 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PEAK INVERSE VOLTAGE	1.375 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
STEADY-STATE PEAK PLATE CURRENT (EACH PLATE)	230 MA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
TRANSIENT PEAK PLATE CURRENT (EACH PLATE)	750 MA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
OUTPUT CURRENT (DC) (TOTAL)	75 MA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE VOLTAGE (AC) PER PLATE – published value 1	5 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE VOLTAGE (AC) PER PLATE – published value 2	450 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
FILTER INPUT CAPACITOR	8 μf	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
OUTPUT CURRENT (DC) – published value 1	70 MA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
OUTPUT CURRENT (DC) – published value 2	70 MA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
TUBE VOLTAGE DROP @ 70 mADC PER PLATE – published value 1	70 mADC	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
TUBE VOLTAGE DROP @ 70 mADC PER PLATE – published value 2	22 mADC	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

TUBE TINKER

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