

ELECTRONIC TUBE REFERENCE

6X4W

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Premium miniature full-wave rectifier with two diode sections for reliable power-supply service. Rated for approximately 1.375 kV peak inverse voltage, 75 mA DC output, and 210 mA peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9Q	BASE PINS	7
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 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	750 mA
MAXIMUM HEATER-CATHODE VOLTAGE	495 V
Representative row for identical repeated sections.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	750 mA
MAXIMUM HEATER-CATHODE VOLTAGE	495 V
Second physical rectifier section; electrical properties populated from corresponding identical section.	

Premium miniature full-wave rectifier with two diode sections. 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 Current	600 mA	Heater Current 0.6 amps.
Heater Positive with Respect to Cathode	495 V	Heater Positive with Respect to Cathode 495 volts
Heater Negative with Respect to Cathode	495 V	Heater Negative with Respect to Cathode 495 volts
Peak Inverse Plate Volitage	1375 V	Peak Inverse Plate Volitage 1375 volts BOTTO
Peak Plate Current, per Plate	230 mA	Peak Plate Current, per Plate 230 ma, M VIEW
DC Output Current	77 mA	DC Output Current 77 ma.
DC Output Current 70	70 mA	DC Output Current 70 70 ma.
At half- load (35 ma.) 390	385 V	At half- load (35 ma.) 390 385 volts
At full-load (70 ma.) 350	375 V	At full-load (70 ma.) 350 375 volts
larger than	4 pF	larger than 4 pf. is used, it may be necessary to increase the plate supply impedance to limit



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	1250 V	FullWave
Peak current per plate maximum	210 mA	FullWave
DC output current maximum	70 mA	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
DC Output Current	70 mA	TypicalRectifierOperation



SOURCE DATA APPENDIX

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	1250 V	PromotedValue
Peak forward/surge current	750 mA	PromotedValue
MAXIMUM PEAK	1375 volts	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM DC PLATE CURRENT	230 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM DC OUTPUT CURRENT	75 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM SURGE CURRENT	750 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
MAXIMUM HEATER –CATHODE VOLTAGE	50 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
HEATER – published value 1	6.3 volts	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER – published value 2	10 volts	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER – published value 1	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER – published value 2	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 1	6 AMP	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 2	6 AMP	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AC PLATE SUPPLY VOLTAGE (EACH PLATE) – published value 1	325 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AC PLATE SUPPLY VOLTAGE (EACH PLATE) – published value 2	45 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
DC OUTPUT CURRENT – published value 1	7 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC OUTPUT CURRENT – published value 2	7 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AT HALF-LOAD CURRENT (35 mA) – published value 1	365 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AT HALF-LOAD CURRENT (35 mA) – published value 2	395 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AT FULL -LOAD CURRENT (7p mA) – published value 1	31 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AT FULL -LOAD CURRENT (7p mA) – published value 2	385 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
DIFFERENCE (VOLTAGE REGULATION)	55 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PERCENTAGE – published value 1	15 PERCENT	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PERCENTAGE – published value 2	2.5 PERCENT	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 1	5 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
HEATER CURRENT – published value 2	6 mA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
i 200 – published value 1	200	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
i 200 – published value 2	1	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker