



ELECTRONIC TUBE REFERENCE

6443

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Heater-cathode half-wave rectifier for electronic supplies, providing approximately 1.8 kV inverse-voltage capability and 150 mA DC output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9BW	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.1 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1800 V
NOMINAL OUTPUT CURRENT	150 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	25 V
Primary electrical section; identical repeated sections compressed where applicable.	

6443 vacuum tube described in the supplied manufacturer registration datasheet.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1954 STC Brimar

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

1954 STC BRIMAR

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage (nominal aC OF AC) veessasssescceasosocscane 6.3 volts	6.3 V	Heater voltage (nominal aC OF AC) veessasssescceasosocscane 6.3 volts
Tube voltage drop (with 150 mA plate current) sevecescscsessesss 25 volts	25 V	Tube voltage drop (with 150 mA plate current) sevecescscsessesss 25 volts
Heater current ccc0000u. tessaescsasanes 0 I 1.1 amps,	1.1 A	Heater current ccc0000u. tessaescsasanes O I 1.1 amps,
AC plate supply voltage (rms) R < 2453 500 volts	500 V	AC plate supply voltage (rms) R < 2453 500 volts
DC output CURtent seseescscsossessvossSSSCSSSSossnsasccansasos 125 150 mA	150 mA	DC output CURtent seseescscsossessvossSSSCSSSSossnsasccansasos 125 150 mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater-cathode VOLTage svieeitsecSSSSSSccssasvnsncss 900 volts	900 V	Maximum heater-cathode VOLTage svieeitsecSSSSSSccssasvnsncss 900 volts
Maximum ac plate voltage (IMS) sesevesscSSSSsecsoSonnosocscas 625 volts	625 V	Maximum ac plate voltage (IMS) sesevesscSSSSsecsoSonnosocscas 625 volts
Maximam tranSIGnt Peak plate current CeeDRERNOGITIERIRROIOOGIEISEOIRIOGESD 300 amperes	300 A	Maximam tranSIGnt Peak plate current CeeDRERNOGITIERIRROIOOGIEISEOIRIOGESD 300 amperes
Maximum steady-state DC output current sceesveccscCCSCCScnnvane 150 mA	150 mA	Maximum steady-state DC output current sceesveccscCCSCCScnnvane 150 mA

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
Tube voltage drop	25 V	At150mADC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current maximum	150 mA	HalfWave
Peak inverse voltage maximum	1800 V	HalfWave
RMS supply voltage maximum	625 V	HalfWave
Peak current maximum	900 mA	HalfWave

TUBE TINKER

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