



ELECTRONIC TUBE REFERENCE

1Z2

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-voltage low-current half-wave vacuum rectifier with a thoriated-tungsten filament. Its compact construction and multi-kilovolt capability suit specialized high-voltage power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CB	BASE PINS	7
NOMINAL HEATER	1.25 V / 265 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	2 mA
PEAK FORWARD CURRENT	10 mA
FORWARD VOLTAGE DROP	50 V
Directly heated half-wave high-voltage rectifier with a 20 kV peak-inverse-voltage rating.	

High-voltage low-current vacuum rectifier with thoriated-tungsten filament for compact high-voltage power supplies.

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	15000 V	—
Maximum Supply Frequency	200 kHz	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum inverse voltage	20000 V	HalfWaveRectifier
Maximum DC output current	2 mA	HalfWaveRectifier
Maximum peak current	10 mA	HalfWaveRectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	50 V	HalfWaveRectifier; At 5 mA DC

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	1.25 V	Nominal
Heater current	265 mA	Nominal

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
Filament voltage	1.25 V	—
Filament current	265 mA	—
Maximum steady-state peak plate current	5.5 mA	HighVoltageRectifier
Maximum DC output current	3.5 mA	HighVoltageRectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum filament heating time	0 s	—