

ELECTRONIC TUBE REFERENCE

991

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
VOLTAGEREGULATOR

Low-current cold-cathode regulator operating around 59 V, also usable as a relaxation-oscillator timing element.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Voltage Regulator	
REGULATOR VOLTAGE	59 V
MINIMUM REGULATOR CURRENT	0.4 mA
MAXIMUM REGULATOR CURRENT	2 mA
STARTING VOLTAGE	87 V
MAINTAINING VOLTAGE	59 V
Published ratings and characteristics promoted from approved datasheet.	

The 991 is a cold-cathode glow-discharge voltage-regulator tube with a candelabra double-contact base. It is intended for regulated DC power supplies and may also be used in relaxation-oscillator circuits. The source table gives a 0.4–2.0 mA operating-current range, about 59 V operating voltage, and about 87 V starting voltage.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating current range	0.4–2 mA	—
Starting voltage	87 V	—
Operating voltage	59 V	—
Voltage regulation	8 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	DC voltage regulation / relaxation oscillator	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Base	Candelabra double-contact	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 2 of 7

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

1971 RCA HB3 BINDER 2 OF 7

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum starting-supply voltage	87— V	—
Operating voltage range	48 to 67 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak current	3 mA	—
Maximum continuous DC current	2 mA	—
Operating current range	0.4 to 2 mA	—

TUBE TINKER

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