

ELECTRONIC TUBE REFERENCE

30AE3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Television sweep tube intended for horizontal-deflection output service, with high positive-pulse plate-voltage capability characteristic of line-output operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CB	BASE PINS	9
NOMINAL HEATER	30 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9CB - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IC	–	–	IC
PIN2 – IC	–	–	IC
PIN3 – IC	–	–	IC
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – IC	–	–	IC
PIN7 – IC	–	–	IC
PIN8 – IC	–	–	IC
PIN9 – P	A	P – Plate (Anode)	CONNECTED
CAP1 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	5 W
PEAK INVERSE VOLTAGE	5000 V
NOMINAL OUTPUT CURRENT	150 mA
PEAK FORWARD CURRENT	800 mA
MAXIMUM HEATER-CATHODE VOLTAGE	5000 V
<i>Published ratings and characteristics promoted from the supplied Rogers/Rogers Majestic source.</i>	

Miniature booster diode used in line-time-base circuits of transformerless television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Rogers

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

1959 ROGERS

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	30 V	—
HeaterOrFilamentCurrent	300 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Negative-Pulse Grid-No.1 Voltage	330 V	Published in approved 30AE3 target datasheet entry; Section1
Average Cathode Current	275 mA	Published in approved 30AE3 target datasheet entry; Section1
Grid-No. 1 -Circuit Resistance	0.5 MΩ	Published in approved 30AE3 target datasheet entry; Section1
Grid-No.1-Circuit Resistance, for horizontal-deflection circuit	22 MΩ	Published in approved 30AE3 target datasheet entry; Section1
# Pulse duration must not exceed 22% of a horizontal scanning cycle (	18 microseconds	Published in approved 30AE3 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply Voltage at zero current	550 V	Published in approved 30AE3 target datasheet entry; Section1
Supply Voltage	250 V	Published in approved 30AE3 target datasheet entry; Section1
Peak Plate Current	550 mA	Published in approved 30AE3 target datasheet entry; Section1
Average Plate Current	220 mA	Published in approved 30AE3 target datasheet entry; Section1
Plate Dissipation	5 W	Published in approved 30AE3 target datasheet entry; Section1
* Under no conditions should an absolute maximum value of	7500 V	Published in approved 30AE3 target datasheet entry; Section1
#The pulse duration must not exceed	22 %	Published in approved 30AE3 target datasheet entry; Section1
Heater Current	450 mA	Published in approved 30AE3 target datasheet entry; Section1
Heater Warm-up Time	11 seconds	Published in approved 30AE3 target datasheet entry; Section1
Grid No.1 to Plate	0.6 pF	Published in approved 30AE3 target datasheet entry; Section1
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	22 pF	Published in approved 30AE3 target datasheet entry; Section1
Plate to Cathode. Heater, Grid No.2, and Grid No.3	11 pF	Published in approved 30AE3 target datasheet entry; Section1
DC Plate Supply Voltage	990 V	Published in approved 30AE3 target datasheet entry; Section1
Peak Positive-Pulse Plate Voltage*	7600 V	Published in approved 30AE3 target datasheet entry; Section1
Peak Negative-Pulse late Voltage	1100 V	Published in approved 30AE3 target datasheet entry; Section1
DC Grid-No.3 Voltage"	75 V	Published in approved 30AE3 target datasheet entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage 125 55	176 V	Published in approved 30AE3 target datasheet entry; Section1
Peak Positive-Pulse Plate Voltage#	5000 V	Published in approved 30AE3 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.3 (Suppressor Grid) 30 30	30 V	Published in approved 30AE3 target datasheet entry; Section1
Grid-No.2 (Screen-Grid) Voltage . . 125 130 125	125 V	Published in approved 30AE3 target datasheet entry; Section1
Grid-No.1 (Control-Grid) Voltage . -25 0	-25 V	Published in approved 30AE3 target datasheet entry; Section1
Plate Resistance (Approx.)	6000 Ω	Published in approved 30AE3 target datasheet entry; Section1
Transconductance	11000 μS	Published in approved 30AE3 target datasheet entry; Section1
Plate Current 800ft	140 mA	Published in approved 30AE3 target datasheet entry; Section1
Grid-No.2 Current 56ff	2 mA	Published in approved 30AE3 target datasheet entry; Section1
of	1 mA	Published in approved 30AE3 target datasheet entry; Section1
of 1 mA - -125	-50 V	Published in approved 30AE3 target datasheet entry; Section1

TUBE TINKER

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