



ELECTRONIC TUBE REFERENCE

3AW2A

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Specialized high-voltage television damper diode with approximately 38 kV peak inverse capability and very low average current, intended for horizontal sweep recovery service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	3.65 V / 220 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	38000 V
NOMINAL OUTPUT CURRENT	1.7 mA
PEAK FORWARD CURRENT	88 mA
FORWARD VOLTAGE DROP	60 V
<i>PIV total DC+peak; DC component 30000 V.</i>	

3AW2A is a DamperDiode vacuum tube documented in the RCA Receiving Tube Manual. The supplied excerpt was reviewed for heater or filament data, physical section arrangement, maximum ratings, electrical characteristics, capacitances, and stated application.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage DC Component	30000 V	AbsoluteMaximum
X-radiation maximum	25 mR/hr	PublishedRating



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 Plate Current	88 mA	Peak Plate Current 88 mA
Average Plate Current	1.7 mA	Average Plate Current 1.7 mA
Tube Voltage Drop for plate current of	7 mA	Tube Voltage Drop for plate current of 7 mA 60 volts
Peak Plate Current	110 mA	Peak Plate Current 110 mA
Average Plate Current	2.2 mA	Average Plate Current 2.2 mA
Peak inverse plate voltage	38000 V	Published rectifier rating
Average output/plate current	1.7 mA	Published rectifier operating/rating value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	3.65 V	Rated heater/filament condition
Heater current	220 mA	Rated heater/filament condition
Tube voltage drop	60 V	Published instantaneous characteristic