



ELECTRONIC TUBE REFERENCE

3DA3

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Rapid-warm-up heater-cathode high-voltage rectifier diode for color television. Its construction includes provisions for controlling X-radiation while supplying the high-voltage CRT accelerating circuit.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	3.15 V / 480 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	2.2 mA
PEAK FORWARD CURRENT	110 mA
FORWARD VOLTAGE DROP	60 V
WARM-UP TIME	4 s
<i>Promoted from printed flyback-rectifier maximum ratings and average characteristics.</i>	

Heater-cathode color-TV high-voltage rectifier diode with a rapid-warm-up heater-cathode design, diffusion-bonded cathode, and X-radiation controls.

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	FlybackRectifierService
Heater voltage absolute maximum	3.65 V	—
Heater voltage absolute minimum	2.65 V	—
X-radiation output maximum	25 mR/hr	At published maximum-rated operating conditions

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to heater/cathode/internal shield capacitance	1.6 pF	—