1X2-A

Description and Rating

HALF-WAVE HIGH-VOLTAGE RECTIFIER

GENERAL DESCRIPTION

Principal Application: The 1X2-A is a miniature half-wave rectifier designed for use in television receivers as the high-voltage rectifier to supply power to the anode of the television picture tube. The 1X2-A is intended primarily for use in fly-back types of power supplies.

Cathode: Coated Filament
Filament Voltage: 1.25 Volts
Filament Current: 0.20 Ampere
Envelope: T-6x Glass
Base: E9-I, Small Button 9-Pin

Top Cap: CI-2, Skirted Miniature or CI-33, Skirted Miniature
Mounting Position: Any
Direct Inter electrode Capacitance: Plate to Filament 1.0 µuf

PHYSICAL DIMENSIONS

TERMINAL CONNECTIONS

Pin 1 - Filament and Internal Shield
Pin 2 - Filament
Pin 3 - No Connection*
Pin 4 - Same as Pin 1
Pin 5 - Same as Pin 2
Pin 6 - Same as Pin 1
Pin 7 - No Connection*
Pin 8 - Same as Pin 2
Pin 9 - Same as Pin 1
Cap - Plate

MAXIMUM RATINGS AND CHARACTERISTICS

DESIGN CENTER VALUES:

Peak Inverse Plate Voltage (Maximum)# 20000 Volts
Peak Plate Current (Maximum) 10 Milliamperes
D-C Output Current (Maximum) 1.0 Milliamperes

Tube Voltage Drop:
Measured with Applied D-C at 7 Milliamperes 100 Volts

* May be used as tie-point for filament dropping resistor and high-voltage filter resistor or may be connected to filament. Do not connect to any other circuits.

# Value given is to be considered as the absolute maximum voltage beyond which the serviceability of the tube may be impaired from the viewpoint of life and satisfactory performance.

Note: The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce soft x-rays which can constitute a health hazard, unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.
AVERAGE PLATE CHARACTERISTICS

D-C PLATE VOLTAGE IN VOLTS

PLATE CURRENT, IN MILLIAMPERE

Eg + 1.25 VOLTS

Tube Divisions, Electronics Department

GENERAL ELECTRIC

Schenectady, N. Y.

ET-T740

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