Electronic TUBE
KEN-RAD

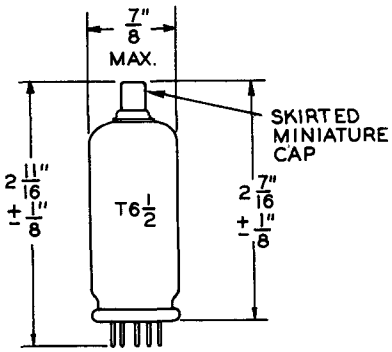
1X2-A
Description and Rating
HALF-WAVE HIGH-VOLTAGE RECTIFIER

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-6½ Glass
Base:	E9-1, Small Button 9-Pin
Top Cap:	C1-2, Skirted Miniature or C1-33, Skirted Miniature
Mounting Position:	Any
Direct Interelectrode Capacitance:	
Plate to Filament	1.0 μμf

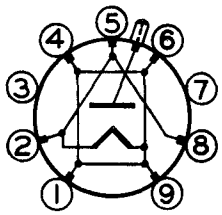
PHYSICAL DIMENSIONS



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

BASING DIAGRAM



RMA 9Y
BOTTOM VIEW

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	Milliampere

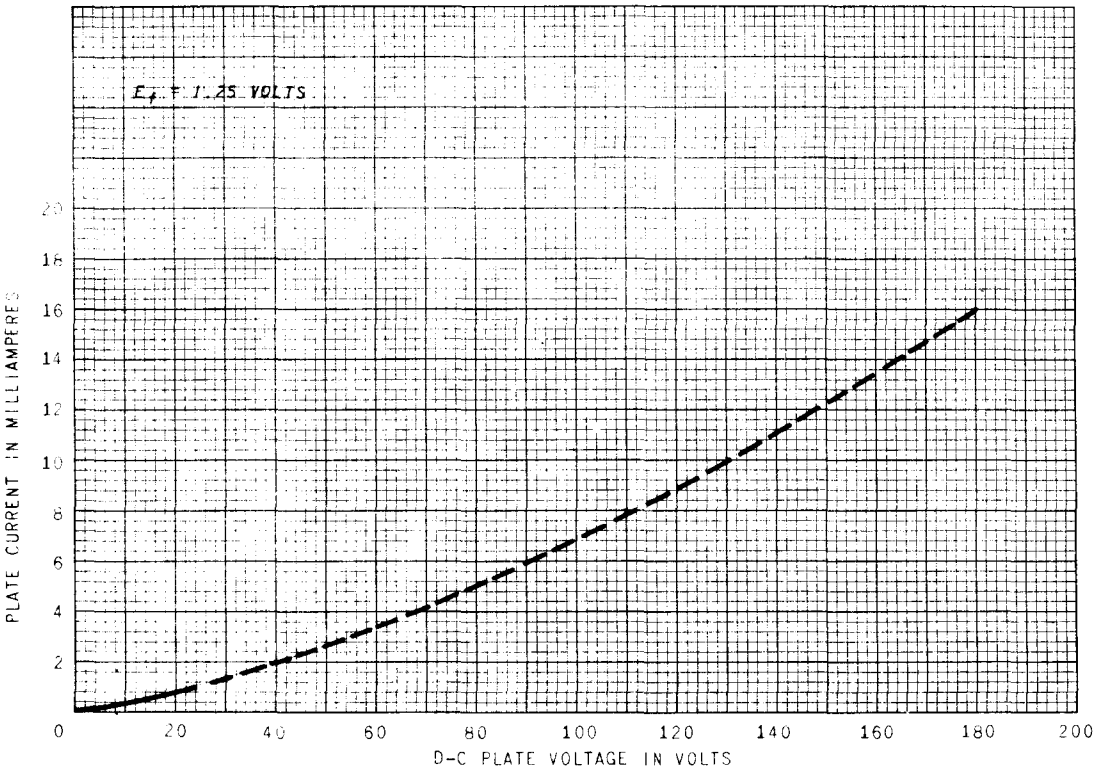
Tube Voltage Drop:
Measured with Applied D-C at 7 Milliamperes . . . . . 100 . . . . . Volts

* *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



Tube Divisions, Electronics Department

GENERAL ELECTRIC

Schenectady, N. Y.