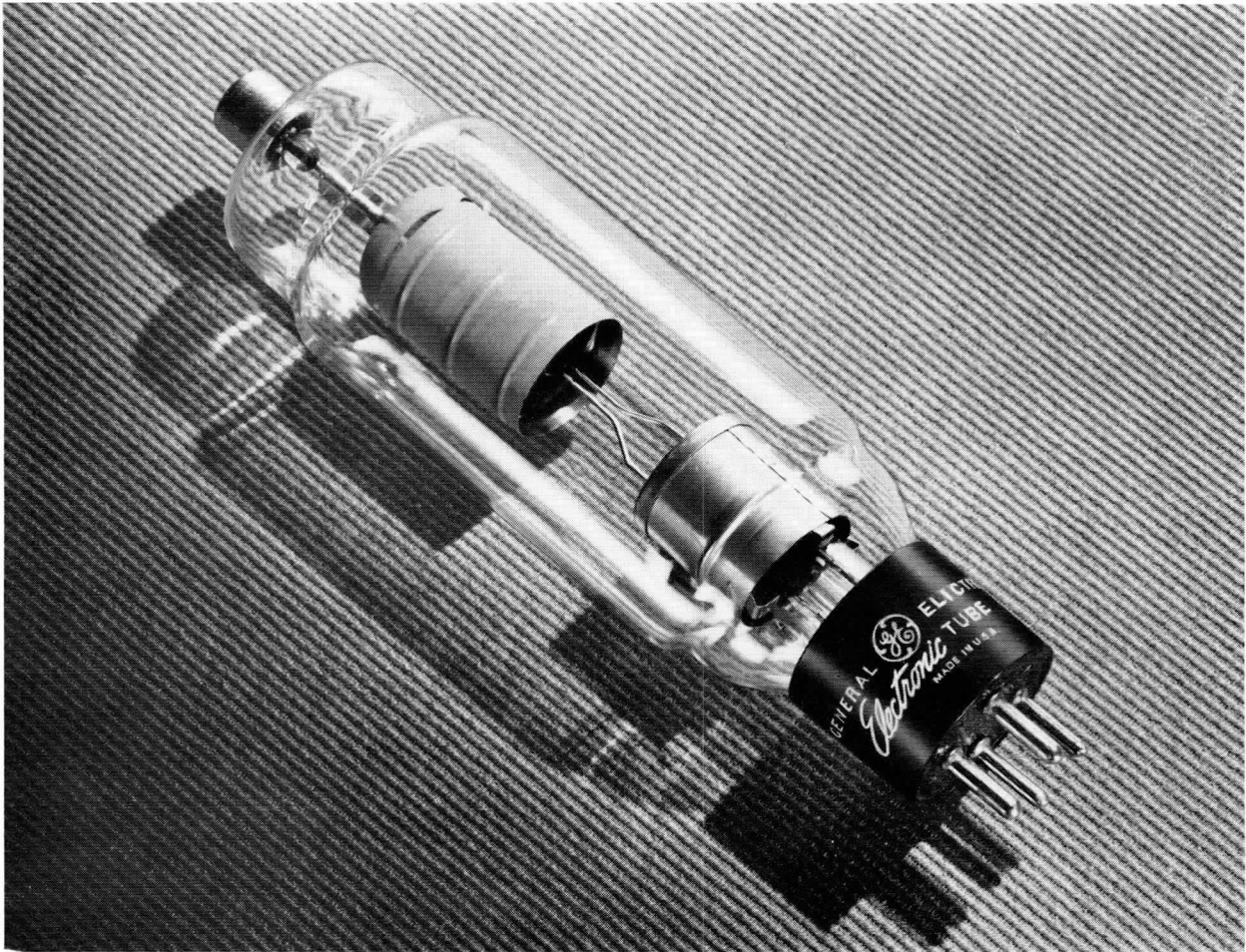




HIGH-VACUUM RECTIFIER

The GL-8020 is a high-vacuum rectifier that may be used at voltages as high as 40,000 volts peak inverse. This tube is particularly useful in applications which require high voltage and low current.

TECHNICAL INFORMATION

GENERAL

Number of Electrodes.....2

Electrical

Cathode—Thoriated Tungsten

Filament Voltage......5 Volts

Filament Current.....5.5 to 6.5 Amperes

Heating Time, minimum......5 Seconds

Tube Voltage Drop at 100 Milliamperes.....200 Volts

Capacitance, plate-filament.....1.4 μ f

Mechanical

Type of Cooling—Convection

Maximum Ambient Temperature.....60 C

Mounting Position—Vertical, Base Down

Cap—Medium Metal

Base—Medium 4-Pin Bayonet

Net weight, approximate......3 Ounces

GENERAL  ELECTRIC

Supersedes pages 1 and 2 only dated 5-46

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

Rectifier Operation

	Typical Operation	Maximum Ratings
Peak Inverse Voltage.....		40,000 Volts
Peak Anode Current.....		750 Milliampères
Average Anode Current.....		100 Milliampères

Surge Limiting Diode Operation

Filament Voltage.....	5.5	5.8 Volts
Peak Forward Anode Voltage.....	10,000	12,500 Volts
Peak Anode Current, minimum.....	2	... Amperes
Average Anode Dissipation.....		75 Watts

X-RAY WARNING NOTICE

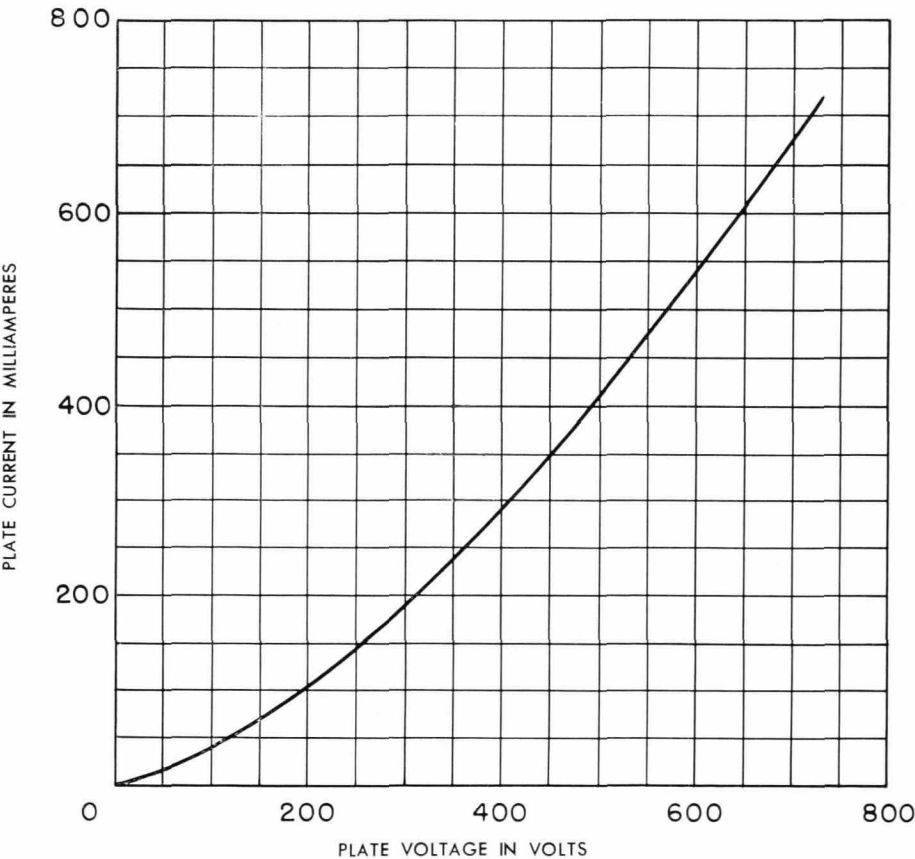
If the GL-8020 is operated at anode voltages in excess of 16 kilovolts, x-ray radiation shielding may be necessary to protect the user against possible danger of personal injury from prolonged exposure at close range. For further information consult the following references or other standard texts on the subject:

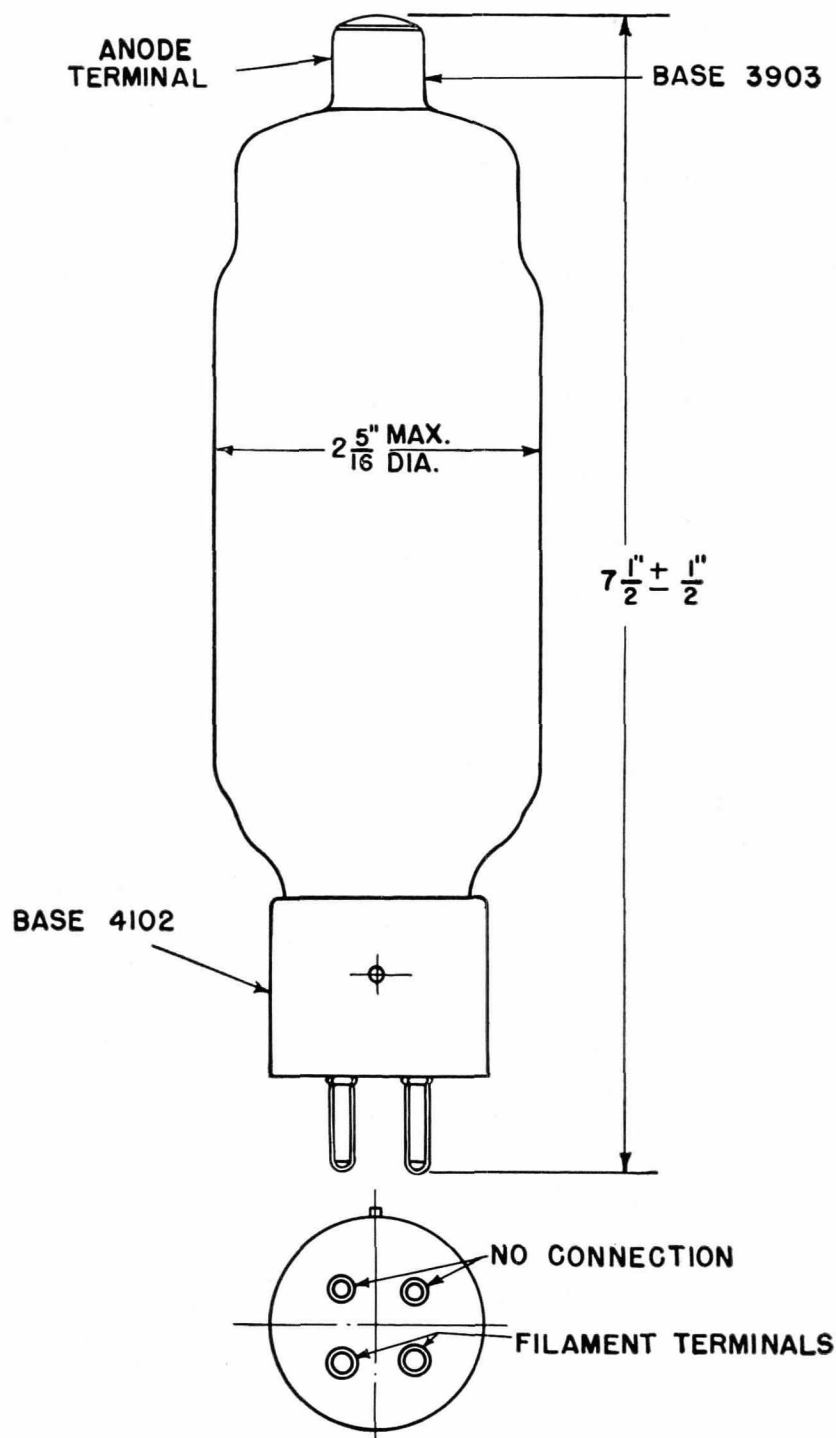
- (a) *X-Ray Protection Design*, Handbook No. 50. National Bureau of Standards, Washington, D. C.
- (b) *X-Ray Protection*, Handbook No. 60. National Bureau of Standards, Washington, D. C.

The above references are available from the Superintendent of Documents, Government Printing Office, Washington, 25, D. C.

PLATE CHARACTERISTIC

$E_f = 5$ VOLTS





K-6979168

9-23-44

GL-8020 OUTLINE

Electronics Department
GENERAL ELECTRIC
Schenectady, N. Y.