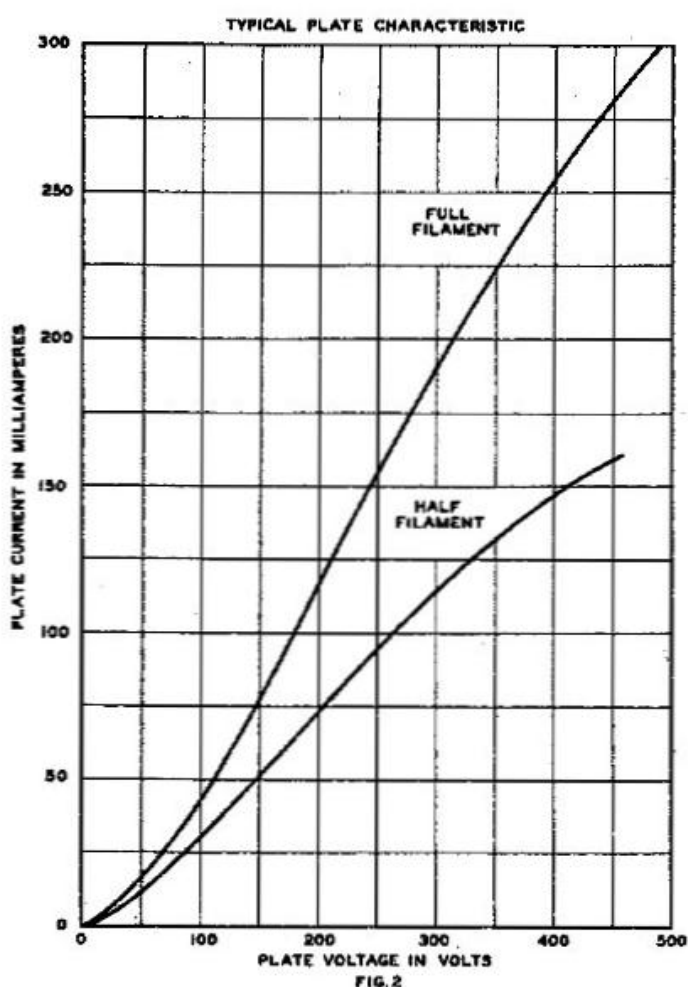
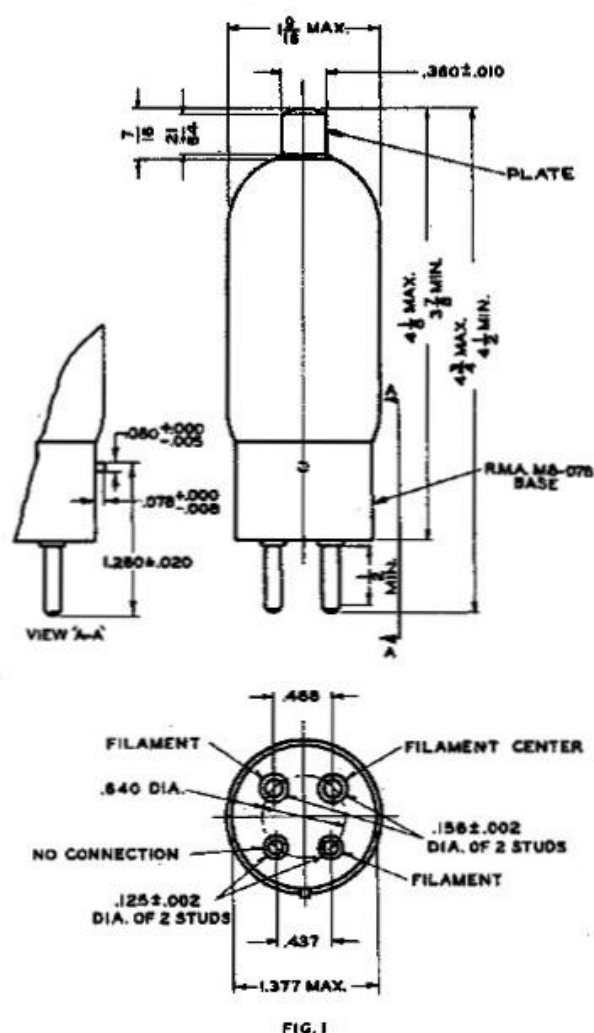


TECHNICAL INFORMATION

WESTERN ELECTRIC 3B24 VACUUM TUBE



CLASSIFICATION

The 3B24 vacuum tube is a high vacuum filamentary diode intended for use as a rectifier in high voltage circuits. It incorporates small size with relatively high inverse voltage rating.

MOUNTING

This vacuum tube employs a small four pin receiving tube type base suitable for use in the standard four pin push type receiving tube socket.

The filament and filament center tap terminals are in the base, arranged as shown in the above drawing. The plate terminal is the cap at the top of the bulb.

The tube should be mounted in a vertical position and a free circulation of air around the bulb should be provided to assure proper cooling.

OPERATION

The tube may be operated using the full filament at 5 volts, 3 amperes, or half the filament at 2.5 volts, 3 amperes.

It is recommended that the filament be not operated with the two halves in parallel at 2.5 volts, 6 amperes.

FILAMENT RATING

	Full Filament	Half Filament
Filament voltage	5.0	2.5 volts a-c or d-c
Nominal filament current	3.0	3.0 amperes

MAXIMUM OPERATING CONDITIONS

	Full Filament	Half Filament
*Maximum peak inverse voltage	20000	20000 volts
Maximum average plate current	0.060	0.030 amperes
Maximum peak plate current	0.30	0.15 ampere
Maximum plate dissipation	25	25 watts

* This maximum rating is only applicable when the tube is operated in relatively dry and dust free air at atmospheric pressure. If other conditions prevail a lower peak inverse voltage may be necessary.

CHARACTERISTICS

Plate characteristic See Figure 2

INTERELECTRODE CAPACITANCE

Average interelectrode capacitance, plate to filament 1.6 mmf