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BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 1T2

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1T2
DIODE

The 1T2 is a high voltage vacuum rectifier with a directly heated cathode. It is especially designed for providing high tension power for cathode ray tubes from a radio-frequency source or by rectification of the fly-back voltage

MECHANICAL DATA

Coated filament.
Outline drawing ..... None at present. Bulb ..... No number at present.
Base ..... No number at present.
Maximum diameter ..... 17/32"
Maximum overall length, including leads ..... 4.1/2"
Maximum length, excluding leads ..... 1.29/32"
Pin connections ..... No basing number at present.

Base lead 1 - Filament Top lead - Plate
Base lead 2 - Filament

Mounting position ..... any

ELECTRICAL DATA

Direct Inter-electrode capacitances

Plate to filament (p to f) ..... 0.65 μμf

Ratings

Filament voltage (ac or dc) ..... 1.4 volts
Filament current ..... 140 mA
Maximum peak inverse voltage * ..... 15,000 volts
Maximum steady state peak plate current ..... 12 mA
Maximum dc output current ..... 2 mA
Tube voltage drop (measured with tube conducting 4 mA) ..... 46 volts

60060/100

Standard Telephones and Cables Limited

BRIMAR VALVE WORKS, FOOTSCRAY, KENT, ENGLAND.

Typical operating conditions and characteristics (fly-back pulse rectifier)

Filament current **	.....	140 mA
Peak inverse voltage	.....	7,500 volts
Input condenser	.....	0.001 µF
D-C output potential	.....	7,000 volts
D-C output current	.....	100 µA

* For circuits where the anode voltage rises at approximately the same rate as the filament voltage (e.g. in fly-back and radio frequency oscillator circuits).
Where used on power input circuits with full A.C. anode volts applied on switching, the maximum peak inverse voltage is 10,000 volts.

** The filament should be run at the same temperature as it would attain if operated at 1.4 Vdc.

Refer to "Interpretation of Receiving Tube Ratings"

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