

BRIMAR

VALVES

TYPE **1T2**DATE
ISSUED **3.1.51**

R.M.A. REGISTRATION DATA

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 DATADirect Inter-electrode capacitances

Plate to filament (p to f) 0.65 μ f

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

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

Filament current	**		140 mA
Peak inverse voltage			7,500 volts
Input condenser			0.001 μ F
D-C output potential			7,000 volts
D-C output current			100 μ A

- * 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"