

BRIMAR

VALVES

TYPE 6066

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R.M.A. REGISTRATION DATA

6066 DOUBLE DIODE TRIODE

The 6066 is a miniature type, double diode triode, designed for trustworthy operation under conditions of vibration and mechanical shock. Characteristics are similar to the 6AT6.

MECHANICAL DATA

Coated unipotential cathode.
 Outline drawing 5-2 Bulb T-5½
 Base E7-1 Miniature button 7-pin
 Maximum diameter 3/4"
 Maximum overall length 2.1/8"
 Maximum seated height 1.7/8"
 Pin connections Basing No. 7BT

Pin 1 - Grid No. 1	Pin 5 - Diode No. 2
Pin 2 - Cathode	Pin 6 - Diode No. 1
Pin 3 - Heater	Pin 7 - Plate
Pin 4 - Heater	

Mounting position	any
Maximum shock (in intermittent service)	500 g
Vibration (continuous service)	2½ g
Mechanical resonance	None below 100 c/s

ELECTRICAL DATAInterelectrode capacitances ‡

Grid to cathode	2.3 pF
Anode to cathode	1.1 pF
Grid to anode	2.1 pF
Diode (D2) to grid	0.025 pF max.

‡ With no external shield.

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Ratings

Heater voltage (ac or dc)	6.3 volts
Maximum heater-cathode voltage	90 volts
Maximum plate voltage	300 volts
Maximum external Grid No. 1 circuit resistance - self bias...	1 megohm

Typical operating characteristics

Anode voltage	100	250 volts
Anode current	0.8	1.0 mA
Grid voltage	-1	-3 volts
Anode impedance	54,000	58,000 ohms
Mutual conductance	1.3	1.2 mA/V
Amplification factor	70	70

Operation as a resistance coupled amplifier

Anode supply voltage	100	250	250 volts
Anode load resistor	0.5	0.25	0.25 megohm
Grid resistor	1.0	1.0	10 megohm
Cathode bias resistor	9,000	3,000	0 ohms
Peak output	16	43	40 volts
* Stage gain	33	42	42
* Harmonic distortion	2	1	5 %

* Figures are for 12 volts peak output.