from RTMA release #965, April 18, 1951

BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 6066

DATE ISSUED 2.3.51.

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

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

ELECTRICAL DATA

Interelectrode 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.

60060/100

Standard Telephones and Cables Limited

BRIMAR VALVE WORKS, FOOTSCRAY, KENT, ENGLAND.

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.