

10D2

DOUBLE DIODE (Separate Cathodes)

Indirectly heated—for series operation

RATING

Heater Voltage	V_h	19	V
Heater Current	I_h	0.1	A
Maximum Mean Anode Current per Anode	$I_a(av)_{max}$	9	mA
Maximum Peak Anode Current per Anode	$I_a(pk)_{max}$	50	mA
Maximum Peak Inverse Anode Voltage	P.I.V.(max)	500	V
Maximum Potential Heater/Cathode (d.c. + a.c. peak with heater -ve)	$V_{h-k(max)}$	150	V

INTER-ELECTRODE CAPACITANCES*(pF)

		§	†
Anode 1/All other Electrodes	$ca'-all$	3.4	4.5
Anode 1/Anode 2	$ca'-a''$	0.018	0.021
Anode 1/Cathode 1	$ca'-k'$	1.65	1.68
Anode 2/All other Electrodes	$ca''-all$	3.4	4.5
Anode 2/Cathode 2	$ca''-k''$	1.65	1.65
Cathode 1/All other Electrodes	$ck'-all$	4.0	5.1
Cathode 1/Cathode 2	$ck'-k''$	0.009	0.011
Cathode 2/All other Electrodes	$ck''-all$	4.1	5.2
Cathode 2/Heater	$ck''-h$	2.5	2.8
Cathode 1/Heater	$ck'-h$	2.27	2.3

* Measured with a closely fitting metal can connected to earth.

§ Inter-electrode capacitance with holder capacitance balanced out.

† Total capacitance including a Benjamin B7G ceramic holder Type 75/833 and cylindrical screen Type 75/832. This holder has a radial shield between pins 1 and 7.

DIMENSIONS

Maximum Overall Length	54	mm
Maximum Diameter	19	mm
Maximum Seated Height	47.5	mm
Approximate Net Weight	$\frac{1}{4}$	oz
Approximate Packed Weight	$\frac{1}{2}$	oz

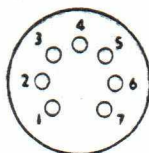
MOUNTING POSITION—Unrestricted.

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BULB—Clear

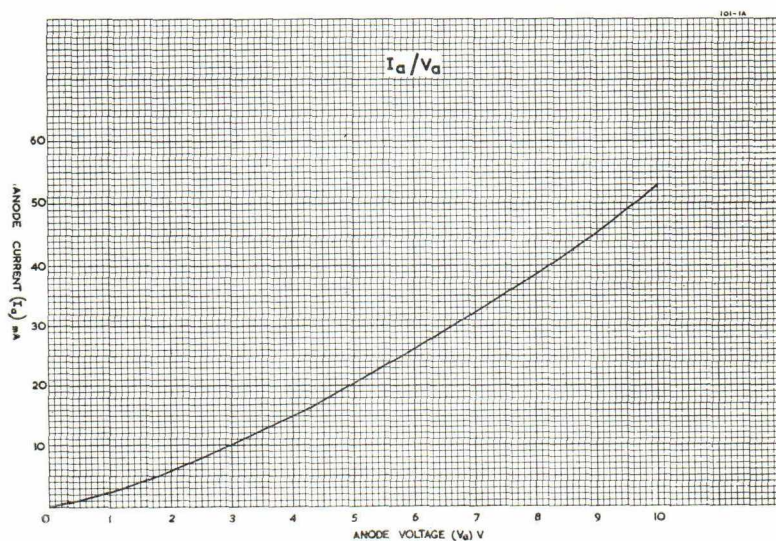
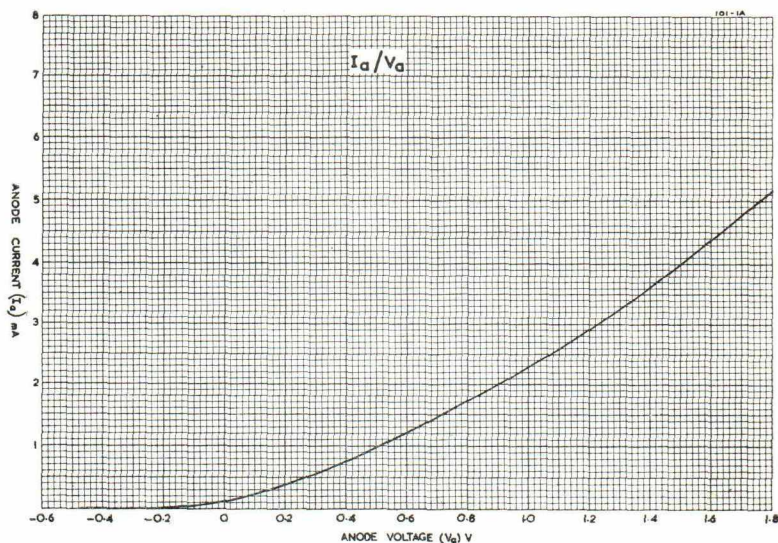
BASE—B7G



Viewed from free end of pins.

CONNECTIONS

Pin 1	Cathode 1	k'
Pin 2	Anode 2	a''
Pin 3	Heater	h
Pin 4	Heater	h
Pin 5	Cathode 2	k''
Pin 6	Internal Shield	s
Pin 7	Anode 1	a'



AVERAGE CHARACTERISTIC CURVES : Regulation

(Full-Wave Rectification)

 R_{lim} (each anode) = 300Ω $C = 8\mu F$ $f = 50$ c/s