

BRIMAR VALVES

TYPE **6443**

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R.M.A. REGISTRATION DATA

6443
DIODE

This tube is an indirectly heated half wave vacuum rectifier. Its small physical size compared with its high output current capabilities renders it useful for compact mobile and airborne equipment. The use of a top cap reduces the possibility of electrolysis of the glass and the likelihood of arc-over at high altitudes. The heater-cathode voltage rating is sufficient to allow the operation of the heater from a supply common to the other valves in the equipment, except when two or more valves are used for voltage multiplication. It is designed for Trustworthy operation under adverse conditions of vibration and mechanical shock.

MECHANICAL DATA

Coated Unipotential cathode.

Outline drawing	BVA B9A valve outline with top cap No. 4.	Bulb	T-6 $\frac{1}{2}$
Top Cap			C1-2 or C1-33
Maximum diameter			$\frac{7}{8}$ "
Maximum overall length			3.9/32"
Maximum seated height			3"
Pin Connections		Basing	9BW.
Pin 1 - Internally connected.	Pin 6 - Internally connected.		
Pin 2 - Internally connected.	Pin 7 - Internally connected.		
Pin 3 - Cathode.	Pin 8 - Internally connected.		
Pin 4 - Heater.	Pin 9 - Internally connected.		
Pin 5 - Heater.			

Top Cap-Plate.

Mounting position	any
Maximum shock	500 g
Vibration (continuous service)	2 $\frac{1}{2}$ g
Mechanical resonances	None below 100 c/s

ELECTRICAL DATA

Ratings

Heater voltage (nominal ac or dc)	6.3 volts
Maximum heater-cathode voltage	900 volts
Maximum peak inverse voltage	1800 volts
Maximum ac plate voltage (rms)	625 volts

60060/100

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Maximum steady state peak plate current	900 mA
Maximum transient peak plate current	3.0 amperes
Tube voltage drop (with 150 mA plate current)	25 volts
Maximum steady-state DC output current	150 mA

Typical operating conditions in half-wave circuit with capacitor input
to filter.

Heater voltage	6.3	6.3 volts
Heater current	1.1	1.1 amps.
AC plate supply voltage (rms)	625	500 volts
DC output current	125	150 mA
Effective plate supply impedance	160	200 ohms.
Input condenser	8	8 μ F
DC output voltage	680	460 volts