

DATA FOR E.I.A. REGISTRATION

MULLARD LIMITED,
 Mullard House,
 Torrington Place,
 L O N D O N W.C.1.
 ENGLAND.

THREE ELECTRODE THYRATRON XR1-1600A JEDEC TYPE 8063

The XR1-1600A is a three electrode, inert gas-filled thyratron with a negative control characteristic. This tube is designed primarily for power control.

MAXIMUM RATINGS

	<u>General Control Service</u>	<u>Ignitor Firing Service</u>	
Maximum Peak Anode Voltage			
Inverse	1500	1500	volts
Forward	1500	1500	volts
Maximum Cathode Current			
Peak (25c/s and above)	20	30	amperes
Average	1.6	0.5	amperes
Maximum Averaging Time	15	15	seconds
Maximum Negative Control Grid Voltage			
Before Conduction	250	250	volts
During Conduction	10	10	volts
Maximum Positive Control Grid Current			
(during the time that the Anode Voltage is more positive than -10V)			
Peak	1.25	1.25	amperes
Average (Averaging Time One Cycle)	0.10	0.10	ampere
Maximum Positive Control Grid Current			
(during the time that the Anode Voltage is more negative than -10V)			
Peak	5.0	5.0	milliamperes
Maximum Grid Resistor	100,000	100,000	ohms
Maximum Commutation Factor	10	10	
Maximum Ambient Temperature	+70	+70	°C

GENERAL

	<u>min. bogey</u>	<u>max.</u>	<u>min. bogey</u>	<u>max.</u>
Electrical Data				
Filament Voltage	2.37	2.5	2.63	2.61 2.75 2.89 volts
Filament Current		8.5	9.5	9.2 10.3 amperes
Cathode Heating Time	10			seconds
Anode to Control Grid Capacitance			0.35	μμf
Control Grid to Cathode Capacitance			10.0	μμf
Deionisation Time			200 approx. μseconds	
Grid Voltage=-250volts			300 approx. μseconds	
Grid Voltage=-100volts			10 approx. μseconds	
Ionisation Time			10 approx. volts	
Anode Voltage Drop			<20	μamperes
Critical Control Grid Current (at Anode Voltage=1500 volts)				

Note: When two or more tubes are operated from a common filament transformer, the transformer center taps must be used for the cathode return, and may also be connected to the filament center taps.

Mechanical Data

Mounting Position

Any between horizontal and vertical with base down.

*Cooling

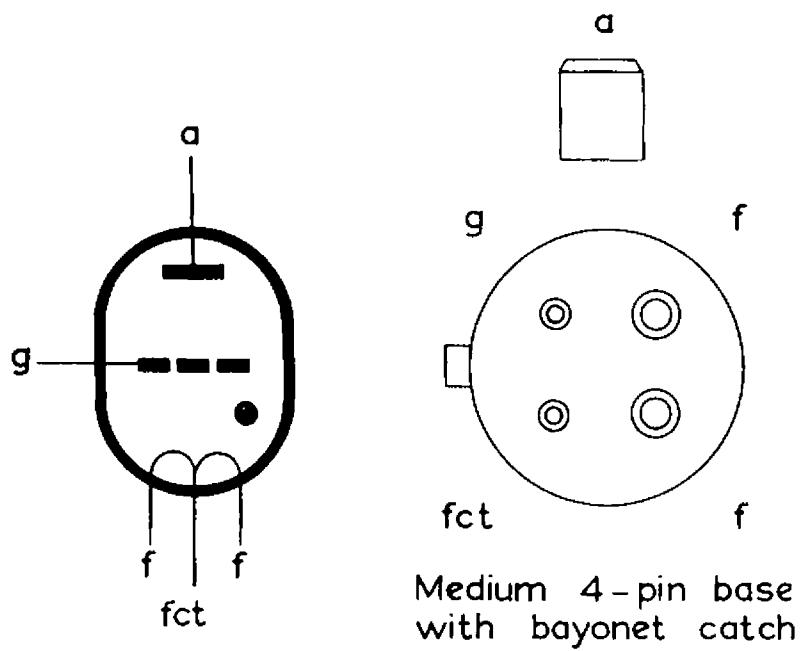
Convection

Maximum Net Weight

4.1 ounces

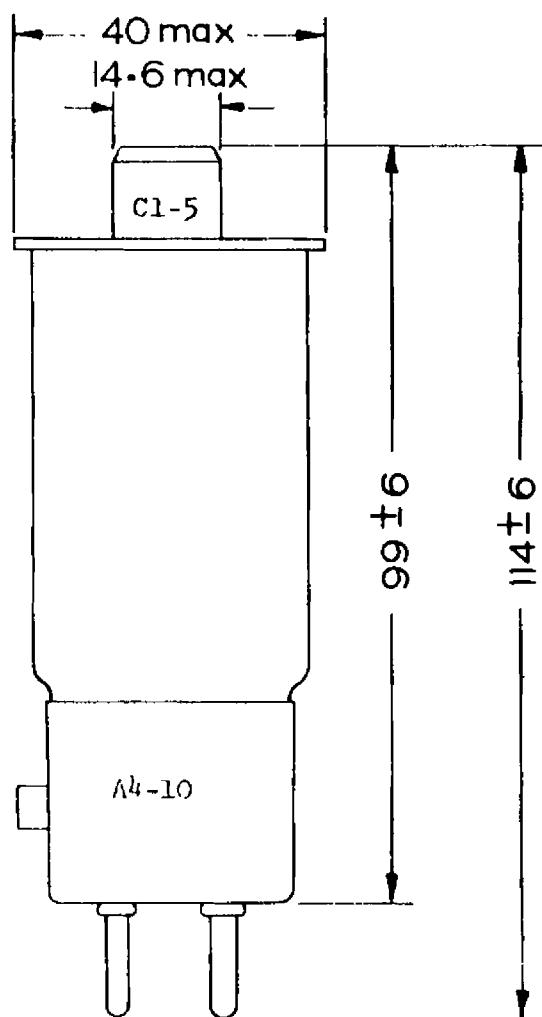
*The anode structure must be left free, to ensure adequate cooling by free convection.

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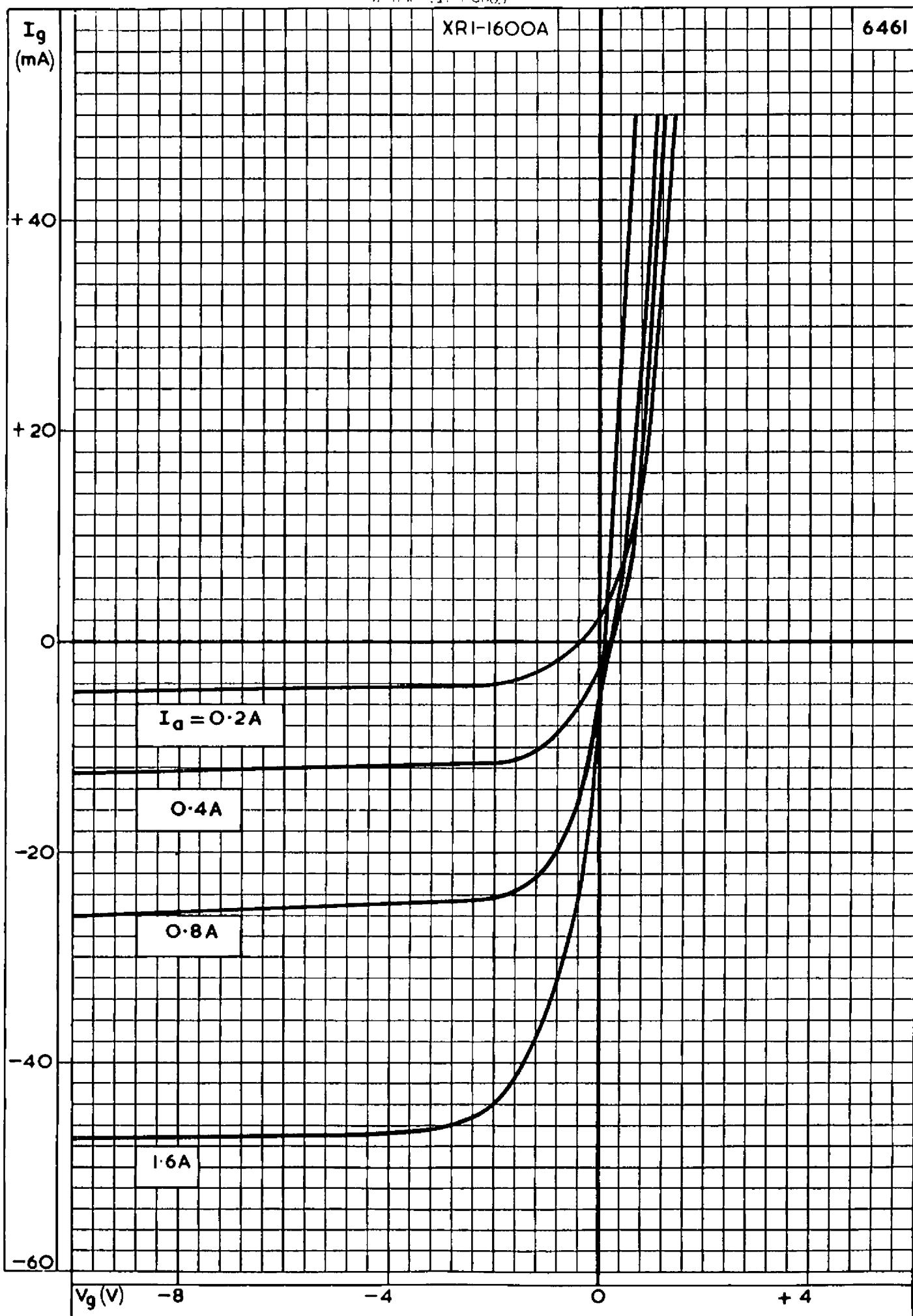


Medium 4-pin base
with bayonet catch

JFRDC TYPE 8063



All dimensions in mm



DATA TYPE: 8063

6456

XRI-1600A

V_a
(kV)

1.6

1.2

0.8

0.4

0

