

Primed Trigger Tube

GDT120M

An inexpensive trigger tube with light diode
suitable for operation in poor light conditions

Limit Ratings

Maximum anode voltage to prevent self-ignition in all tubes (Trigger voltage 0 V)	+340 V
Maximum trigger to cathode voltage at which breakdown will not occur in any tubes (anode voltage 315 V)	Cathode 0 V, Trigger +105 V Trigger 0 V, Cathode +70 V
Minimum trigger voltage necessary to cause breakdown in all tubes (anode voltage 315 V)	+155 V
Maximum cathode current	9 mA
Minimum cathode current	3 mA
Minimum supply voltage for priming diode	315 V

Characteristics

Anode running voltage at 4.5 mA (N.B.—Tubes may exhibit jumps of up to 20 V in operation).	94—130 V
Deionization time ($I_a = 4.5$ mA)	3 mS max. ←
Ionisation time ($V_T = 175$ V pulse)	500 μ S max.

Recommended Operating Conditions

Anode supply voltage	315 V
Cathode current	3.4 mA
Anode load resistor	47 k Ω
Trigger bias with respect to cathode (Trigger resistor 330 k Ω)	+80 V
Light anode to be connected via 10 M Ω to +315 V.	
Light cathode to be connected via 10 M Ω to 0 V.	

N.B. ← Indicates a change from previous data sheets.



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Mechanical Data

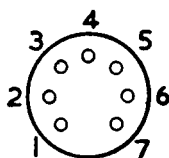
Mounting position

Any

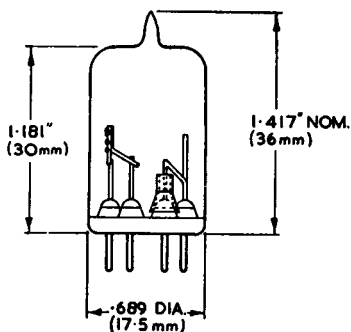
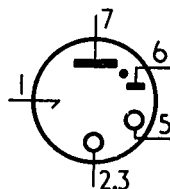
Base

B7G

Base Connections
(underside view)



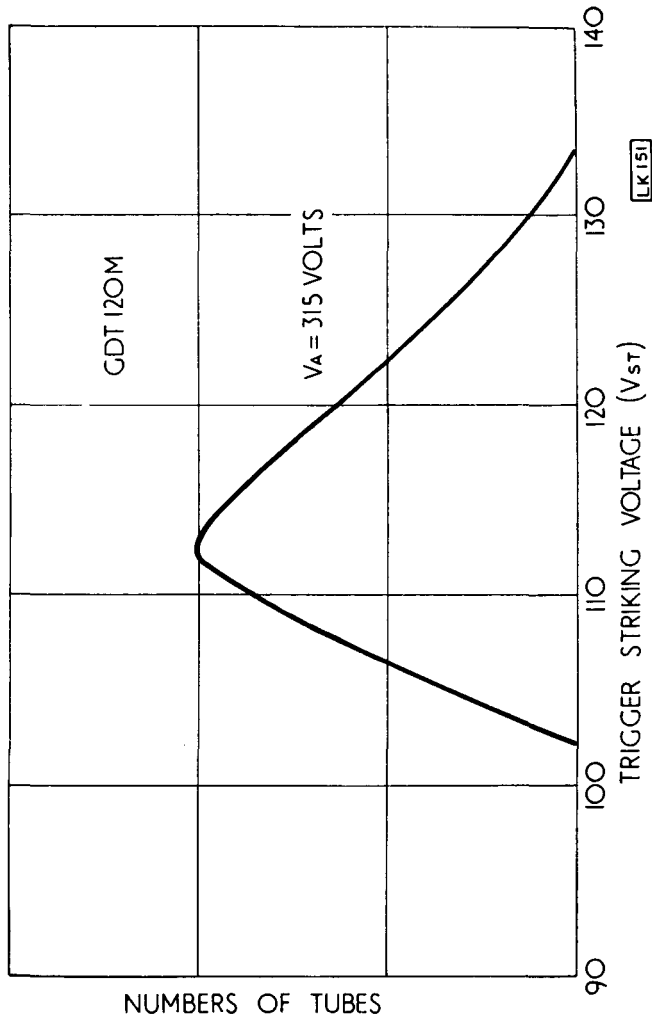
- 1 Trigger
- 2 } Cathode
- 3 }
- 4 Do not connect
- 5 Light cathode
- 6 Light anode
- 7 Anode



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Distribution of Trigger Striking Volts



