MAINTENANCE TYPE ONLY

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 μS max.

Recommended Operating Conditions

Anode supply voltage	315 V
Cathode current	3·4 mA
Anode load resistor	47 kΩ
Trigger bias with respect to cathode (Trigger resistor 330 kΩ)	+80 V

Light anode to be connected via 10 MΩ to +315 V.

Light cathode to be connected via 10 MΩ to 0 V.

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

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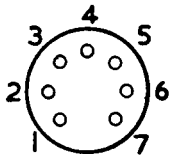
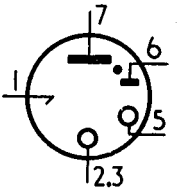
Mechanical Data

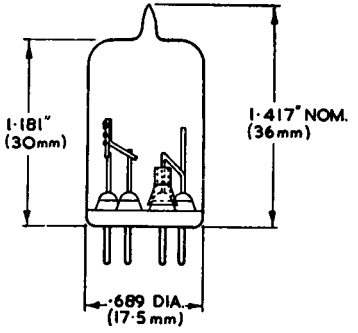
Mounting position	Any
Base	B7G

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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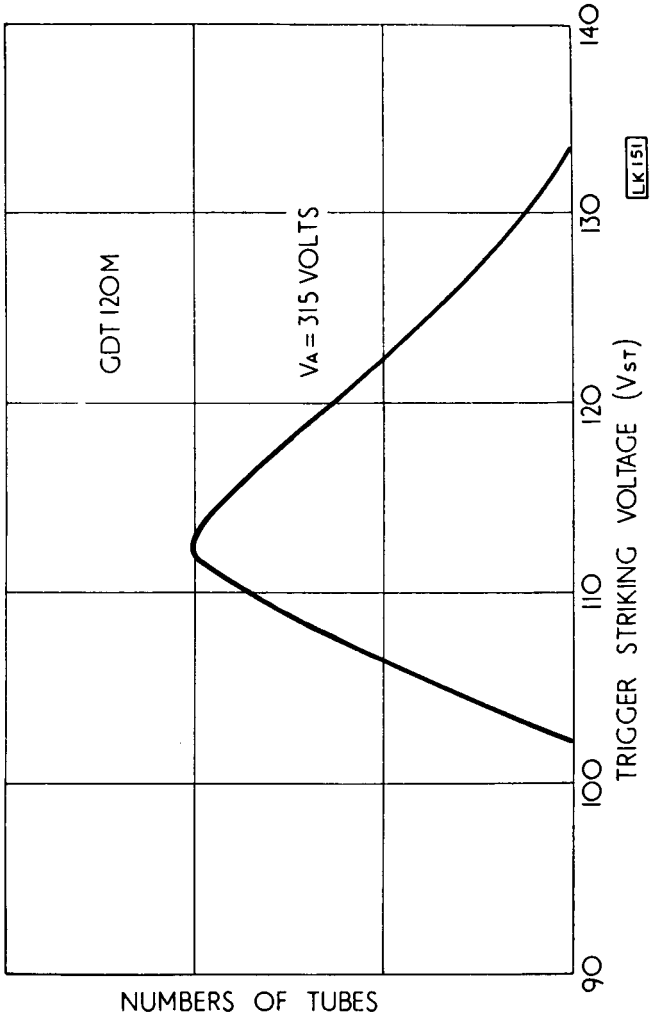

Distribution of Trigger Striking Volts