## **Primed Trigger Tube**

**GDT 120 T** 

A high current inexpensive trigger tube with light diode suitable for operation in poor light conditions

Limit	Ratings
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Maximum anode voltage to prevent self- ignition in all tubes (trigger voltage 0 V)	400 V
Maximum trigger to cathode voltage at which breakdown will not occur in any tubes (anode voltage 315 V)	
Cathode 0 V, Trigger	+100 V
Trigger 0 V, Cathode	+80 V
Minimum trigger voltage necessary to cause	
breakdown in all tubes (anodé voltage 315 V)	+155 V
Maximum cathode current (D.C.)	25 mA
Maximum cathode current (peak) max.	
duration 100 mS.	60 mA
Minimum cathode current	5 mA
Minimum supply voltage for priming diode	315 V

### **Characteristics**

Anode running voltage at 25 mA	94—130 V ←
(N.B.—Tubes may exhibit jumps of up	
to 20 V in operation at low currents)	
Deionization time $(l_a = 25 \text{ mA})$	5 mS max. ←
lonization time $(V_T = 175 \text{ V pulse})$	1 mS

### **Recommended Operating Conditions**

Anode supply voltage	315 V
Cathode current	25 mA
Anode load resistor	<b>8⋅2</b> kΩ
Trigger bias with respect to cathode	+80 V
(Trigger resistor 100 k $\Omega$ )	
Light anode to be connected via 10 M $\Omega$ to +315 V	

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

Light cathode to be connected via 10 M  $\Omega$  to 0 V



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#### Mechanical Data

Mounting position

Any

Base

В9А

**Base Connections** (underside view)



- Anode 2 3 4 5 6 7 8 Do not connect Trigger
- Cathode
- Do not connect Light cathode
- Light anode Anode





