*DIGITRON – 10 Digit End-Viewing Cold-Cathode Numerical Register Tube

GR10H

Limit Ratings

Maximum cathode current	2·5 mA
Minimum voltage to ensure breakdown	150 V

Characteristics

Nominal running voltage at 2 mA	140 V
Minimum pre-bias voltage (glowing cathode at 0 V)	+25 V
Maximum pre-bias voltage (glowing cathode at 0 V)	+100 V

A cathode left floating will assume some potential between that of the anode and the glowing cathode. Pre-biasing ensures that the non-glowing electrodes are clamped at a predetermined level and cathodes are selected bringing them to the 0 V line.

Recommended Operating Conditions

Under the recommended operating conditions, with the cathodes switched sequentially every 24 hours, an average life of 4000 hours can be expected.

D.C. operation

Anode supply voltage—R_a = 82 kΩ	250 V
R_a = 47 kΩ	200 V

A.C. operation

(Unsmoothed half-wave rectified 50 c.p.s. A.C.)

Anode supply voltage—R_a = 120 k	220-250 V r.m.s.
R_a = 82 k	200-220 V r.m.s.

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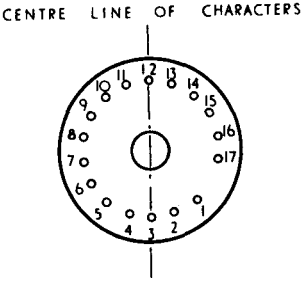
Mechanical Data

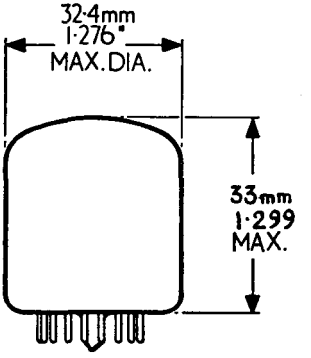
Mounting position	Any
Base	B17A
Socket	B17A

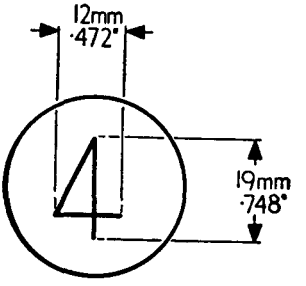
Base Connections
(underside view)

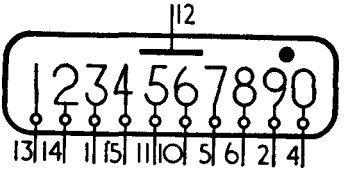


Pin 1 Cathode 3
2 Cathode 9
4 Cathode 0
5 Cathode 7
6 Cathode 8
10 Cathode 6
11 Cathode 5
12 Anode
13 Cathode 1
14 Cathode 2
15 Cathode 4

Note: All other pins are to be left unconnected.







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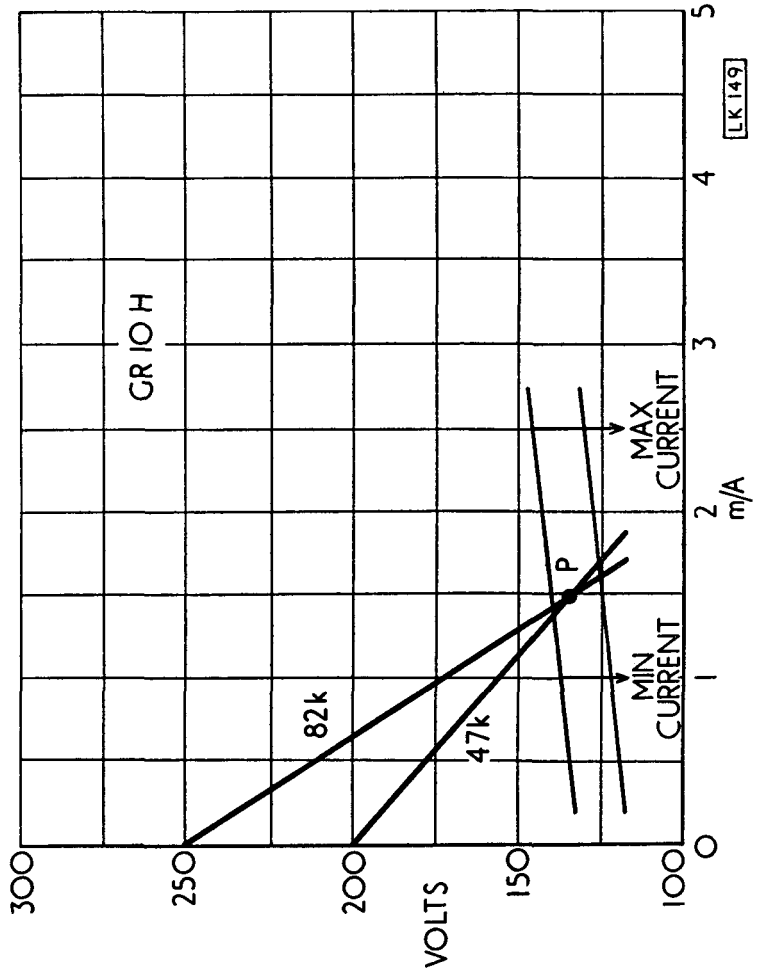

Operating Characteristics

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