5960
Bendix Type TD-1

COLD CATHODE DISCHARGE TUBE

DESCRIPTION

This gaseous discharge tube is designed for use as an electronic relay to control large peak currents at high voltages. It is particularly suited for aircraft and industrial applications where ruggedness, small size, and long service life are important, and where heater power is not available or warm-up time is not permitted.

The tube has a metal envelope and a ceramic base filled with an insulating compound to permit operation at high altitudes with no arc-over. It requires a four-pin socket and can be mounted in any position.

Applications for this tube can be found in ignition systems, capacitor discharge welding circuits, pulsing circuits, and control circuits.

RATINGS

Heater voltage	None
Max. forward plate voltage	1300 volts
Max. average current	90 ma.
Max. peak current	100 amps.
Tube voltage drop	100 volts (approx.)
Max. frequency	500 p.p.s.
Min. trigger voltage	250 volts
Min. anode voltage	325 volts

PHYSICAL CHARACTERISTICS

Base	4-pin ceramic
Envelope	MT-8
Max. overall length	2.917 in.
Max. seated height	2.281 in.
Max. diameter	1.171 in.
Mounting position	Any
Ambient temperature	−67° to + 165°F.
Max. altitude	65,000 ft.

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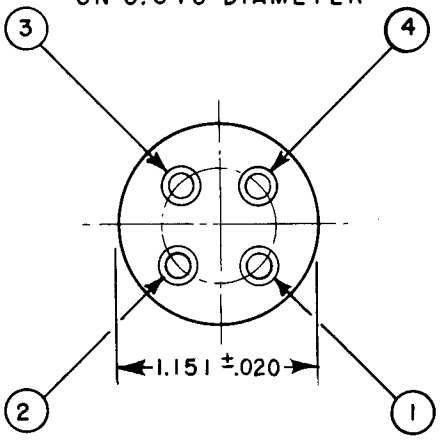
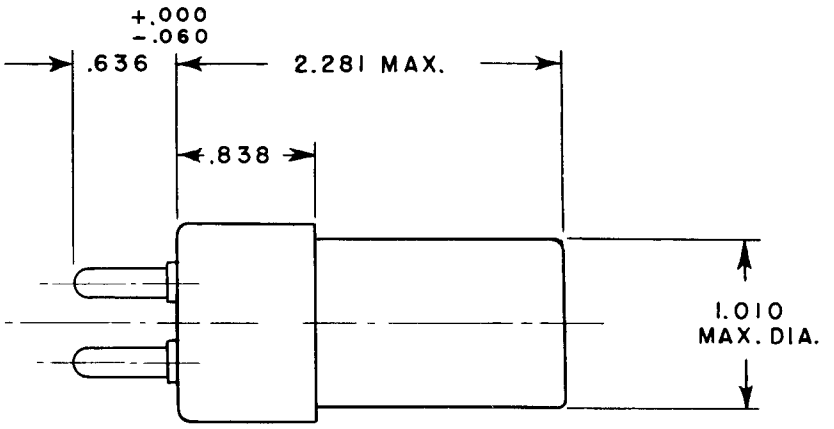
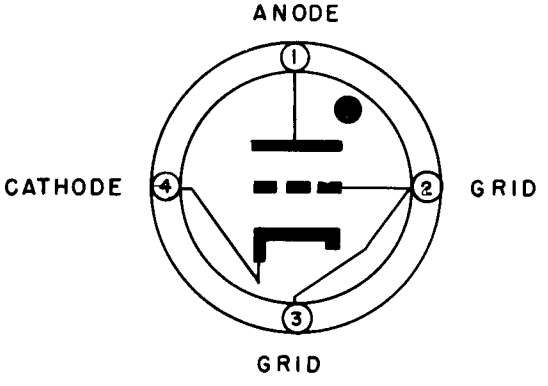


PINS 1 & 4 — DIAMETER 0.156
PINS 2 & 3 — DIAMETER 0.125





BASE DIAGRAM
(BOTTOM VIEW)

OUTLINE DRAWING

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