



Excellence in Electronics

TYPE CK6436/CK1036

The CK6436/CK1036 is an instant starting, cold-cathode, gas-filled diode of subminiature construction designed primarily for use as a half-wave rectifier with vibrator power supplies having high transient voltages. Several tubes may be operated in cascade to generate very high voltages. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

- ENVELOPE: T-3 Glass
- BASE: None (0.016" tinned flexible leads; Length: 1.50" min. Spacing: 0.096" center-to-center)
- TERMINAL CONNECTIONS: (Red Dot is adjacent to Lead 3)
 - Lead 3 Anode
 - Lead 5 Cathode
- MOUNTING POSITION: Any

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES:

- Peak Inverse Voltage Δ
- Peak Cathode Current (Steady State)
- Peak Cathode Current (Surge)
- Average Cathode Current (dc)
- Minimum Peak Anode Supply Voltage
- Minimum Anode Supply Impedance
- Ambient Temperature Range

- 1500 volts
- 10 ma.
- 30 ma.
- 100 μ a.
- 1400 volts
- 50,000 ohms
- 55 to +80 $^{\circ}$ C

CHARACTERISTICS AND TYPICAL OPERATION: (Per Circuit Below)

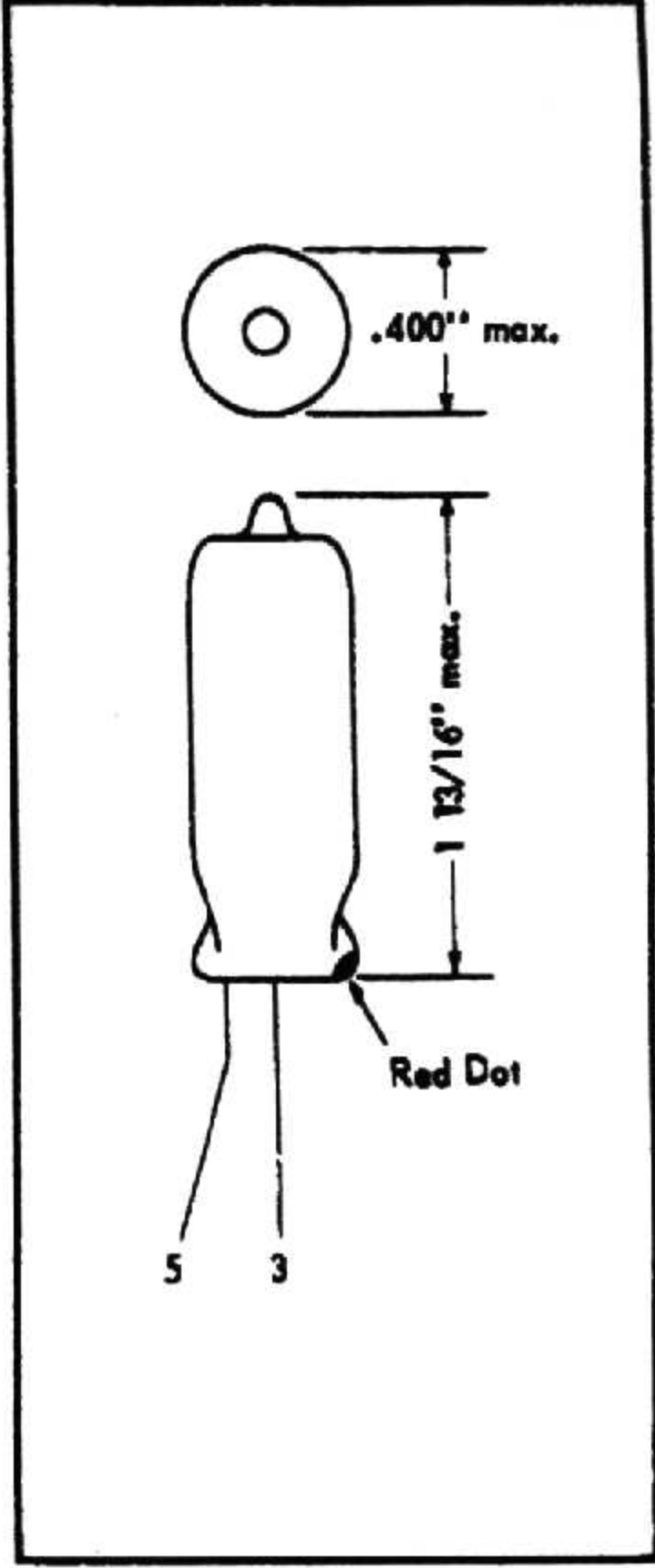
Maximum Inverse Current at -1500 volts DC

-8 μ a. dc

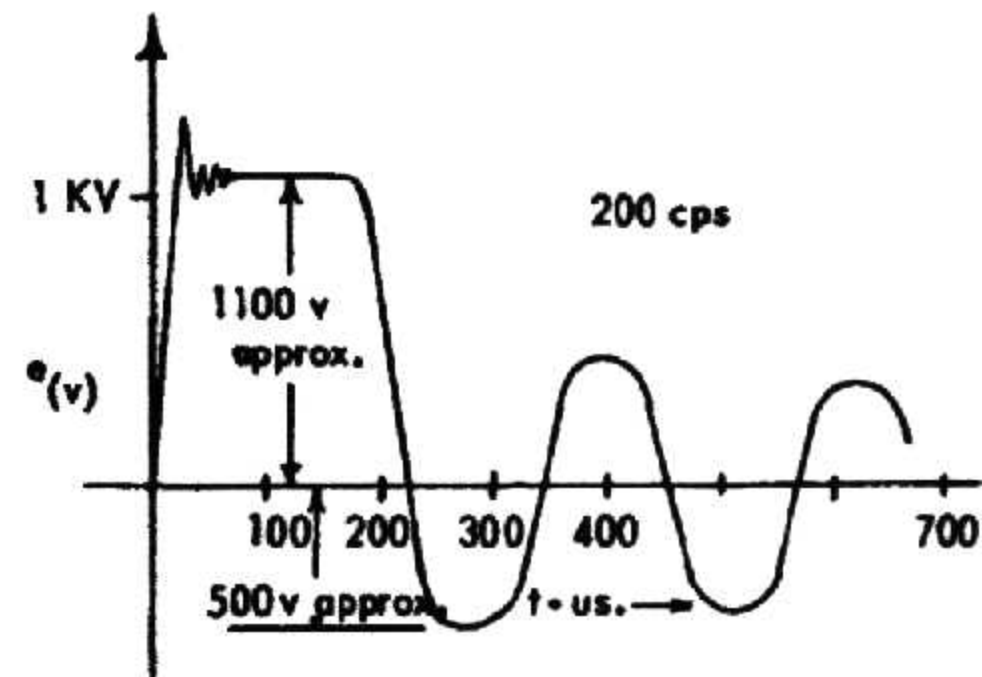
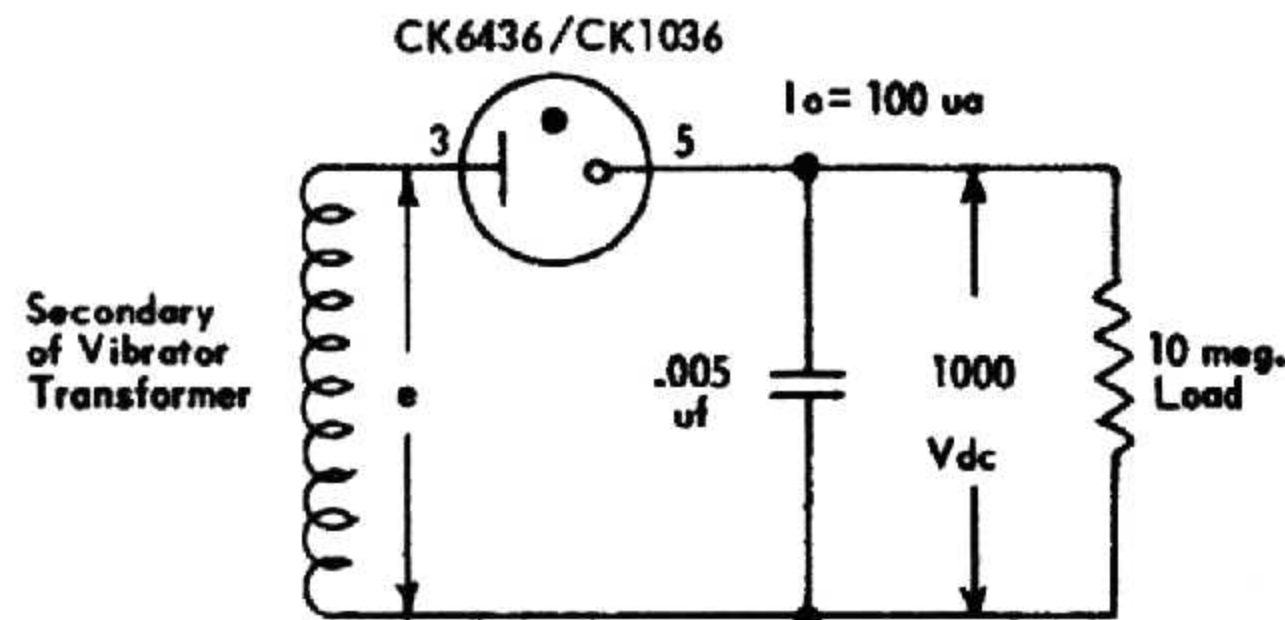
VIBRATOR POWER SUPPLY OPERATION:

- Vibrator Anode Supply Impedance
- Peak Inverse Voltage
- DC Output Voltage
- DC Output Current

- 100,000 ohms
- 1500 volts
- 1000 volts
- 100 μ a.



Δ Instantaneous inverse voltage in excess of 1000 volts should not have a duty cycle factor greater than 10%.



Tentative Data

RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS