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 1500 volts
- Peak Cathode Current (Steady State) 10 ma.
- Peak Cathode Current (Surge) 30 ma.
- Average Cathode Current (dc) 100 µa.
- Minimum Peak Anode Supply Voltage 1400 volts
- Minimum Anode Supply Impedance 50,000 ohms
- Ambient Temperature Range -55 to +80 °C

CHARACTERISTICS AND TYPICAL OPERATION: (Per Circuit Below)
- Maximum Inverse Current at -1500 volts DC -8 µa. dc

VIBRATOR POWER SUPPLY OPERATION:
- Vibrator Anode Supply Impedance 100,000 ohms
- Peak Inverse Voltage 1500 volts
- DC Output Voltage 1000 volts
- DC Output Current 100 µa.

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