RAYTHEON

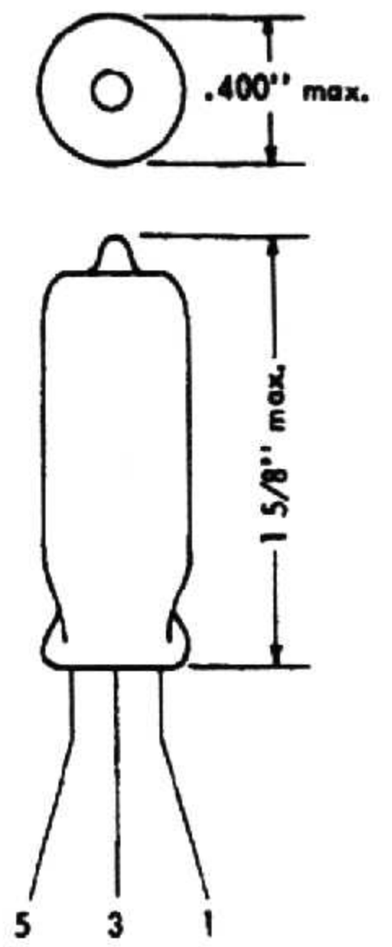
TECHNICAL INFORMATION

SUBMINIATURE
GAS - FILLED DIODE

Excellence in Electronics

TYPE CK6437/ CK1037

The CK6437/CK1037 is a cold cathode, corona-discharge tube of subminiature construction, designed for use as a voltage regulator in high voltage low current supplies. It has an operating current range of 5 to 125 μa. over which it maintains a substantially constant operating voltage of 700 volts. Two cathode leads are provided which may be used to disconnect the load when the tube is removed from the socket. 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: 1.5" min.
Spacing: 0.096" center-to-center)

TERMINAL CONNECTIONS:

Lead 1 Cathode
Lead 3 Anode
Lead 5 Cathode

MOUNTING POSITION: Any

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES:

DC Anode Supply Voltage	2000 volts
Minimum DC Anode Supply Voltage ▲	800 volts
DC Operating Current	5 to 125 μa
Ambient Temperature Range	-55 to +70 °C

CHARACTERISTICS AND TYPICAL OPERATION:

DC Starting Voltage (approx.)	800 volts max.
DC Operating Voltage (approx.) at 25 μa	700 volts
Regulation (5 to 100 μa.)	15 volts max.
Leakage current at 500 volts	0.5 μa max.

▲ *Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.*

Tentative Data

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