



Excellence in Electronics

TYPE CK6438/ CK1039

The CK6438/CK1039 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 μ a over which it maintains a substantially constant operating voltage of 1200 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
Minimum DC Anode Supply Voltage Δ
DC Operating Current (continuous)
Ambient Temperature Range

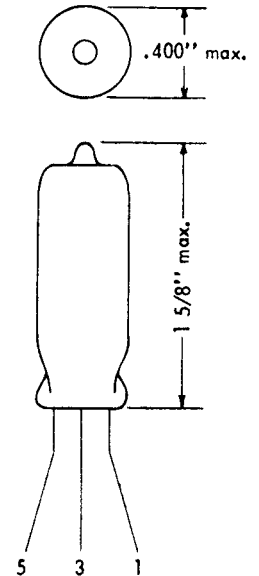
2000 volts
1400 volts
5 to 125 μ a
-55 to +70 $^{\circ}$ C

CHARACTERISTICS AND TYPICAL OPERATION:

DC Starting Voltage (approx.)
DC Operating Voltage (approx.) at 25 μ a
Regulation (5 to 100 μ a)
Leakage Current at 500 volts

1400 volts max.
1200 volts
20 volts
0.5 μ a max.

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



Tentative Data

RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS