



*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  $\mu$ 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  $\blacktriangle$
- DC Operating Current (continuous)
- Ambient Temperature Range

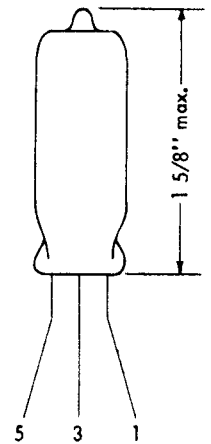
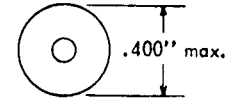
2000 volts  
 1400 volts  
 5 to 125  $\mu$ a  
 -55 to +70  $^{\circ}$ C

CHARACTERISTICS AND TYPICAL OPERATION:

- DC Starting Voltage (approx.)
- DC Operating Voltage (approx.) at 25  $\mu$ a
- Regulation (5 to 100  $\mu$ a)
- Leakage Current at 500 volts

1400 volts max.  
 1200 volts  
 20 volts  
 0.5  $\mu$ a max.

$\blacktriangle$  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