The 6844 is a gas-filled, cold cathode, 10-digit ("0" through "9"), numerical indicator tube, having a common anode. It features a suppressor screen to minimize darkening of the viewing dome. It is intended for use as a direct, in-line, read-out device.

### Mechanical (See Fig. 1)

- Overall length: 1.380" Max.
- Seated Height: 1.125" Max.
- Bulb Diameter: 1.080" Max.
- Envelope Connections: See Fig. 2
- Height of Numerals: 0.610" Nom.
- Numeral Design (Human Engineering): See Fig. 3
- Socket, 13-Pin (#HSK-106 or HSK-112): See Fig. 4, Note 4
- Weight: 1 oz. Max.
- Mounting Position: See Note 1
- Cathode(s): Glow Discharge
- Vibration: 350 G's (30° Hammer)
- Temperature: -65°C Through +70°C, Note 2
- Altitude: 70,000 Ft.

### Electrical

1. **Absolute Ratings**
   - Ionization Voltage: 170 Vdc Minimum
   - Anode Current:
     - Peak: 4.0 MA, Note 3
     - Average: 2.2 MA Max.
   - Individual Cathode Wattage: 0.38 Watts Max.

2. **Test Conditions** (See Typical Circuit)
   - Anode Supply Voltage: 170 Vdc
   - Anode Series Resistor: 15K ohms
   - Anode Current: 1.0 MA Min. -2.2 MA Max.

### Typical Circuit

![Typical Circuit Diagram](attachment:typical_circuit_diagram.png)

### Notes

1. The tube socket is oriented with respect to the viewing position so that A—A', intersecting the center of Pins 1 and 8 is vertical with Pin 8 on top. This orients the numerals in the correct vertical position. The numbers are viewed through the top of the tube.

2. From +30°C to +70°C, no significant change in cathode current occurs. From +30°C to -65°C an increase in cathode current (Up to 50%) may be expected.

3. It is recommended that the cathode current be kept at its lowest possible value for complete numeral glow in order to obtain maximum life.

4. HSK-112 available early 1957.

*Reg. Trade Mark.

from JETEC release #1821, Jan. 7, 1957