

### MECHANICAL DATA

Bulb . . . . .	T-1
Base . . . . .	Subminiature Button Flexible Leads
Outline . . . . .	See Diagram
Basing . . . . .	See Diagram
Cathode . . . . .	Coated Filament
Mounting Position . . . . .	Note 1

### ELECTRICAL DATA

#### FILAMENT CHARACTERISTICS

Filament Voltage AC or DC . . . . .	1.0 ± 5 % V
Filament Current . . . . .	30 Ma

#### RATINGS (Absolute Maximum)

Plate Voltage . . . . .	65 Vdc
Plate Current . . . . .	750 $\mu$ A
Grid Resistance . . . . .	1.0 Megohm

#### CHARACTERISTICS AND TYPICAL OPERATION

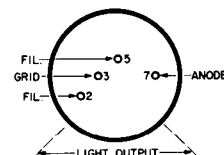
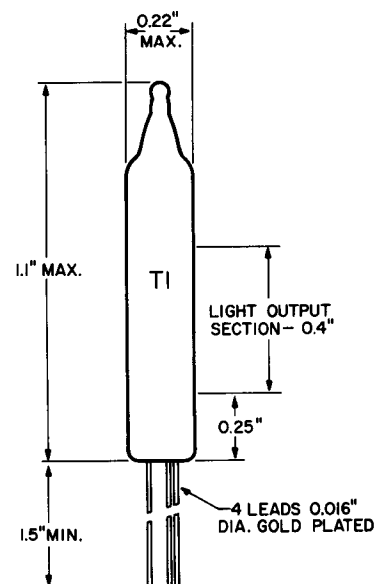
Filament Voltage <sup>2</sup> AC . . . . .	1.0 Volt
DC Plate Voltage . . . . .	50 Volts
Grid Resistance . . . . .	100,000 Ohms
Grid Supply Voltage (Max. Light Output) . . . . .	0 Volt
Plate Current (Max. Light Output) . . . . .	585 $\mu$ A
Grid Supply Voltage (Zero Light Output) . . . . .	-3 Volts
Plate Current (Zero Light Output) . . . . .	5 $\mu$ A

#### NOTES:

1. Type 6977 tubes are designed to be soldered-in and mounted flat and parallel to each other on printed circuit boards such that the light output sides of the tubes face the front.
2. Center tap of filament transformer grounded.
3. The 6977 is well suited for use in transistorized circuits where its high input impedance and small signal requirements do not load the transistor circuit. The 6977 is optimized for side view mounting and will produce a bright blue-green light area approximately 0.4 x .187 inches.

### QUICK REFERENCE DATA

The Sylvania Type 6977 is a filamentary, high vacuum, sub-miniature indicator triode with a fluorescent anode, capable of operating from DC plate and grid supplies. It is designed for applications in electronic computers and business machines where it can replace neon lamps.<sup>3</sup>



**SYLVANIA**  
**ELECTRONIC TUBES**  
 A Division of  
 Sylvania Electric Products Inc.  
**RECEIVING TUBE**  
**OPERATIONS**  
**EMPORIUM, PA.**

*Prepared and Released By The*  
**TECHNICAL PUBLICATIONS SECTION**  
 EMPORIUM, PENNSYLVANIA

OCTOBER, 1963

PAGE 1 OF 2

*File Under*  
**RECEIVING TUBES**

AVERAGE ANODE CHARACTERISTICS

