

## SWITCHING AND LIGHT DIODE

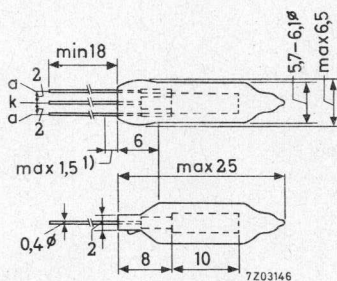
Long-life cold-cathode neon-filled subminiature switching and light diode with a large and stable difference between ignition and maintaining voltage intended for touch control applications e.g. in variable capacitance diode controlled radio or television tuners. The tube is shock and vibration resistant.

### QUICK REFERENCE DATA

Ignition voltage	$V_{ign}$	172	V
Maintaining voltage	$V_m$	107	V
Cathode current	$I_k$	3	mA

### DIMENSIONS AND CONNECTIONS

Dimensions in mm



### MOUNTING

The tube may be soldered directly into the circuit, but heat conducted to the glass to metal seals should be kept to a minimum by using a thermal shunt. The leads may be dip-soldered to a minimum of 5 mm from the seals at a solder temperature of 240 °C during max. 10 s. Care should be taken not to bend the leads closer than 1,5 mm to the seals.

1) This part of the leads is not tinned.



**LIMITING VALUES** (Absolute max. rating system)

Cathode current, average for continuous conduction average ( $T_{av} = \text{max. } 1 \text{ s}$ )	$I_k$	min.	2, 2	mA
	$I_k$	max.	4, 5	mA
Anode voltage, negative peak	$-V_{ap}$	max.	200	V
Bulb temperature	$t_{bulb}$	min.	-55	$^{\circ}\text{C}$
		max.	+70	$^{\circ}\text{C}$

**SHOCK AND VIBRATION RESISTANCE**

These conditions are solely used to assess the mechanical quality of the tube. The tube must not be continuously operated under these conditions.

Shock resistance 500 g

Forces as applied by NRL impact machine for electronic devices caused by 5 blows of the hammer lifted over an angle of  $30^{\circ}$  in each of 4 positions of the tube.

Vibration resistance 2, 5 g(peak)

Vibrational forces for a period of 32 hours at a frequency of 50 Hz in each of 3 directions.