

MECHANICAL DATA

Bulb	T-3
Base	E8-10, Subminiature Button, Flexible Leads
Outline	3-1
Basing	8EX
Cathode	Cold
Mounting Position	Any

RATINGS

Impact Acceleration ¹	450 g Max.
Fatigue (Vibrational Acceleration For Extended Periods) ²	2.5 g Max.
Bulb Temperature (Absolute Max.)	+160° C
	-55° C

ELECTRICAL DATA

RATINGS (Absolute Values)

Minimum, Ambient Light, Starting Voltage	115 Volts
Minimum Ionization Voltage in Total Darkness ³	140 Volts
Maximum DC Operating Current	3.5 Ma
Minimum DC Operating Current	1.5 Ma
Maximum Shunting Capacitance	0.02 μμf

CHARACTERISTICS

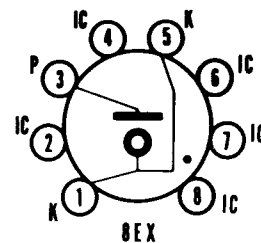
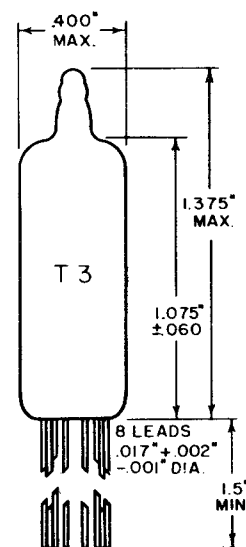
DC Operating Voltage ⁴	87 Volts
Maximum Regulation	3 Volts
Drift ⁵	200 Mv
Stability ⁶	5 Mv
Repeatability ⁷	150 Mv
Voltage Jump ⁸	50 Mv
Maximum Average Temperature Coefficient of DC Operating Voltage	
-20° C to +25° C Ambient	-15 Mv/°C
+25° C to 60° C Ambient	-5 Mv/°C
Noise Output Voltage, Maximum ⁹	50 Mv AC
Life Expectancy, 150° C Ambient Temperature	1000 Hours

NOTES:

1. Forces in any direction as applied by the Navy Type High Impact (Flyweight) Shock Machine for Electronic Devices, or equivalent.
2. Vibrational forces in any direction at 60 cycles per second for a period exceeding 100 hours.
3. Test conducted in total darkness after tubes have been held in darkness for 24 hours.
4. The anode voltage drop may range from tube to tube between 82 and 92 volts.
5. The maximum operating voltage change, at any specific value of current within the operating range, during one hour of operation.
6. The maximum operating voltage fluctuation having a frequency of 10 cycles per second or greater, at any specific value of current within the operating range.
7. The maximum shift in operating voltage between successive firings of the tube.
8. The maximum sudden jump in operating voltage when operating current is varied slowly over the specified operating range.
9. Across plate resistor of 10,000 ohms, with applied vibrational acceleration of 2.5 g at 25 cycles per second.
10. Do not use pins marked "IC" as circuit tie points. Any connection to these leads may cause erratic tube performance.

QUICK REFERENCE DATA

The Sylvania Type 6308 is a sub-miniature, gas filled cold cathode, glow discharge diode intended for use as a voltage reference tube in electronically regulated power supplies. The 6308 is designed for operation under conditions of severe shock, vibration and high temperature.



(Note 10)

**SYLVANIA ELECTRIC
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