

JOINT ELECTRON TUBE ENGINEERING COUNCIL

ELECTRON TUBE TYPE 8514/GV5A-1000

The 8514 is a two electrode gas filled cold cathode tube primarily for use in voltage regulator applications operating in the corona mode.

Maximum Ratings, Absolute Values

Maximum d.c. Cathode Current - peak pulse	800	ua
Minimum d.c. Cathode Current	10	ua
Ambient Temperature Limits and/or Bulb Temperature Limits	-65° to +125	°C

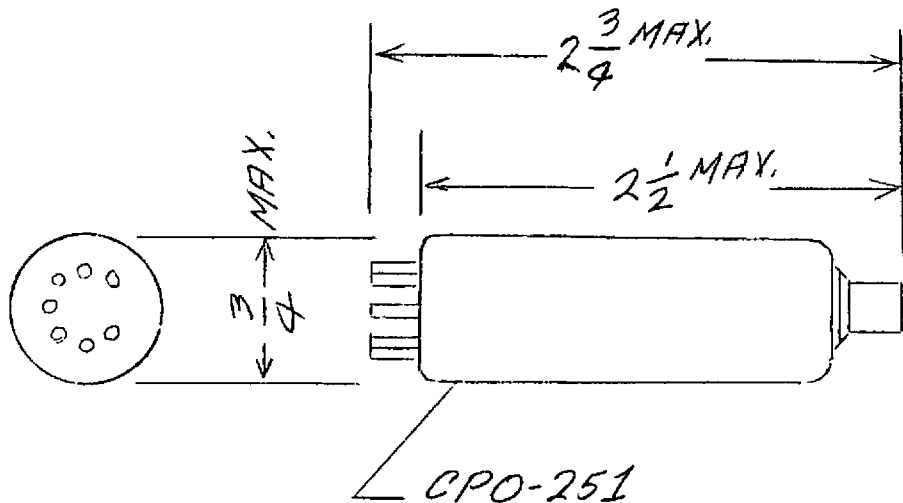
Electrical Data Throughout Life

	<u>Min.</u>	<u>Bogey</u>	<u>Max.</u>
Anode Voltage Drop at 100 ua	975	1000	1025 Volts
Anode Breakdown Voltage (1) in Darkness			1200 Volts
(2) in Light			1200 Volts
Regulation 10 to 650 ua			20 Volts
Temperature Coefficient of Voltage Drop (Note 3)		80	mV/°C
-65 to +125° C Ambient			
Repeatability Note 1 & 2			10 Volts

Mechanical Data

Mounting Position, any	Bulb	T 5½
Net Weight, Maximum, .5 oz.	Base	E7-1
	Top Cap	C1-3

Outline



Basing

Pin	1	2	3	4	5	6	7	Top Cap
	K	K	K	K	K	K	K	Anode

- Note 1: Tube operated at 100 ua of current at 25° C ambient temperature.
- Note 2: Maximum change of Tube Voltage Drop, as measured before and after a seven-day non-operating hold period.
- Note 3: Tube operated at 100 ua.